For Modellers by Modellers!

MILITARY MODELCRAFT INTERNATIONAL

August 2014 · Volume 18 · Number 10
UK price: £4.50

www.guidelinepublications.co.uk

Béhémoth à Français

We tackle Meng Models' monster.

A Legend in Plastic

Modelling the most iconic tank of World War II.

Torrent 2014

We report on Spain's premier modelling event.

Out of Gas?

Try Tamiya's Quarterscale refuelling truck.

08
9 771364 419050
Guideline Publications

Reviewing the Latest in Kits, Accessories and Books

MILITARY MODELCRAFT INTERNATIONAL

Publisher
Guideline Publications
www.guidelinepublications.co.uk

Chairman
Régis Auckland
Email:
regisauckland@btinternet.com

Editor
David Grummitt
20 Warwick Road, Whitstable
CT5 1HX United Kingdom
Email: davidgrummitt942@hotmail.com

Associate Editor
Tony Little
Email:
TL6784onwardsandup@myself.com

Assistant Editor
Moustafa Assad
Email: masss11@hotmail.com

Sales & Marketing Director for Guideline Publications
Tom Foxon
E-mail: tom@regallitho.co.uk
Mob: +44 (0) 7540 153368

Design
Lincoln Rodrigues

Subscriptions
Guideline Publications Ltd.
Unit 3, Enigma Building, Bilton Road, Denbigh East,
Bletchley, Buckinghamshire MK1 1HW, UK
Tel: 01908 274433 Fax: 01908 270614
Email: guidelines@regallitho.co.uk

Guideline Publications Subscription Agent for the USA.
Larry Weindorf
c/o For The Historian, 42 York Street,
Gettysburg PA 17325
Tel: 717-685-5207
Email: tampacollector@yahoo.com

Distributed to the UK and International news trade by:
Intermedia www.inter-media.co.uk
via
MarketForce (UK) Ltd., 110 Southwark Street
London SE1 0SU www.marketforce.co.uk

MMI Shop
Guideline Publications Ltd.
Unit 3, Enigma Building, Bilton Road, Denbigh East,
Bletchley, Buckinghamshire MK1 1HW
Tel: 01908 274433 Fax: 01908 270614
Email: guidelines@regallitho.co.uk

Trade Sales to Model Shops
Guideline Publications Ltd. *(Address as MMI shop above)*

US & Canada Model Trade Sales
Disticor Magazine Distrubution Services
695 Westney Road South,
Suite 14, Ajax, ON L15 6M9 Canada
Tel: (905) 619-6565 Fax: (905) 619-2903

US & Canada Postal Service
Disticor Magazine Distrubution Services
695 Westney Road South, Suite 14, Ajax, ON L15 6M9,
Canada. Tel: (905) 619-6565 Fax: (905) 619-2903

Printed By
Regal Litho Ltd., Unit 3, Enigma Building, Bilton Rd,
Denbigh East, Bletchley, Buckinghamshire MK1 1HW
Tel: 01908 270400
Email: estimating@regallitho.co.uk
Web: www.regallitho.co.uk

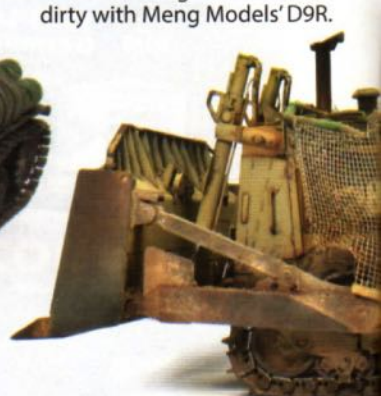
Features...

20	1/48	**Fill 'Em Up** **Domingo Hernandez** breezes through Tamiya's recent Quarterscale GMC CCKW.
24	1/35	**Béhémoth à Français** **Kamil Felix Stzarbala** tackles Meng's French monster tank.
36	-	**Showtime: AMT Torrent 2014** **Federico Collada** reports on Spain's premier modelling event.
42	1/35	**The Booty of War** **Fabrizio Pincelli** joins the MMI team with some extreme weathering.
50	1/35	**Großer Mercedes** **Federico Collada** tackles ICM's Mercedes Benz.
58	1/35	**Tiger I ... the Legend** **Özgur Güner** tackles probably the most iconic tank of all.

Stars of the Next Issue *MMI brings you the world's best*

Beast Killer Part 1
Bronco Models' SU-152 receives the MMI treatment.

D9 Extreme
Martin Kováč get down and dirty with Meng Models' D9R.



Contents

Regulars...

06 The Forum
News and Views.

08 News at the Front
An in-depth look at latest releases.

14 The Quartermaster's Store
A round up of the latest releases.

67 Words and Pictures
Expand your media reference library.

70 The Final Post
Ian Duthie is impressed by two small World War II tanks from Hobbyboss.

Key to Scales used in MMI

1/6 = 300mm	1/35 = 51mm
1/10 = 200mm	1/48 = 36mm
1/16 = 120mm	1/72 = 25-28mm
1/18 = 90mm	1/76 = 24mm
1/24 = 70-75mm	1/144 = 13mm
1/32 = 54mm	MMI = no scale, reference articles, Industry news

modellers under one cover.

On sale in the UK 21 August 2014

Beast Killer Part 2
Tamiya's new Nashorn in all its glory.

... plus much more!

Military Modelcraft International is published monthly by Guideline Publications. This magazine shall not, without written consent of the publisher, be lent, resold or otherwise disposed of by way of trade in excess of the maximum recommended retail price. All rights strictly reserved. No part of this publication may be reproduced in any way without prior agreement of the publisher. All material and artwork originated by Guideline Publications Ltd., photographs, drawings and plans used in the magazine become the publisher's copyright under copyright law. The company reserves the right to suspend or refuse any advertisements without giving reasons. Whilst every care is taken to avoid mistakes. Guideline Publications Ltd. cannot be liable in any way for any errors or omissions. Nor can the publication accept responsibility for the bona fides of advertisers.

ANNUAL SUBSCRIPTIONS

12 issues
UK inland rate £49.50pa
Europe £64.00pa
R.O.W £85.00pa
Guideline Publications Ltd.,
Unit 3, Enigma Building,
Bilton Road, Denbigh East,
Bletchley, Buckinghamshire
MK1 1HW, UK
Tel: 01908 274433
Fax: 01908 270614
Email:
guidelines@regallitho.co.uk
ISSN 1364-419X

Competition Rules

Employees of Guideline Publications Ltd and the Provider(s) of the Prize(s) and their immediate families are not eligible to enter. One entry per household. The decision is final and no correspondence will be entered into. No responsibility can be taken for entries that are damaged, delayed, mislaid, or wrongly delivered. Guideline Publications Ltd accept no responsibility for any damage or injury caused by competition prizes. Any enquiries should be directed to the manufacturer or retailer.

INDEX TO ADVERTISERS

Aviation and Military Book Centre	P02
MIG	P03
Eduard	P07
LSA Models	P07
Historex	P11
Historex	P13
Sprue Brothers	P19
Spade	P19
IBG	P35
CMK	P49
Hauler	P49
Models for Sale	P49
Matador Models	P49
Jamieson	P49
Name It	P49
Larry Weindorf's Show Dates	P49
Pocketbond	P57
Inside Armour	P67
IPMS	P67
Scale Model Challenge	P67
London Plastic Modelling Show	P72
Hannants	P73
Vallejo	P74

Forum

The big news this month is that Guideline Publications is finally going digital. A lot of readers and Facebook fans have been asking about this and I can now announce that we will be launching a digital edition to run alongside the print edition of MMI (and our sister magazine, Scale Aircraft Modelling). The focus, as always, will remain on print and what looks good in print as this is the thing we believe we do better than our competitors, but the digital MMI will allow modellers who don't have easy access to our paper magazine to access our articles and reviews. All being well this August issue will see the launch our digital edition and we'll be making the formal announcements at the USA IPMS 50th Anniversary Convention at the Roads Convention Centre in Hampton, VA on 6-9 August. Look out on our website and the Facebook page for more details.

This month features some real modelling excellence. First up Domingo Hernandez takes us through Tamiya's Quarterscale Refuelling Truck and the American theme continues with Federico Collada presenting a Mercedes-Benz Type 770 captured by US forces. Another trophy of war is the subject of MMI-newcomer Fabrizio Pincelli's article. His captured Iraqi T-55 Enigma is a study in extreme weathering. MMI regular Özgur Güner presents his take on the Tiger I, along with the Sherman and the T-34 one of the most iconic tanks of World War II. Last, but by no means least, Polish modeller Kamil Felix Sztarbala gives us an extended article on Meng Models' enormous Char 2C. As well as a full build, painting and weathering article, Kamil takes us through how he sculpted a very distinctive crew, based on an archival image. Alongside our regulars (a report on the Torrent 2014 show, new product announcements and reviews), it's an action-packed issue! Until next month, happy modelling.

David

David Grummitt Editor

News at the Front

An in-depth look at some of the latest releases

Vallejo | **Various** | Roman Volchenkov

Acrylicos Vallejo is one of the most recognized paint manufacturers for scale modelling. They are focused on making acrylic products that comply with EU safety rules and are best known for the extensive range of different paints that are there to satisfy sophisticated hobbyists. If there is any possible tone, chances are that it is in their range. Last year they introduced thematic sets as part of their 'AFV painting system' which consist of several shades of similarly coloured paints that allow creating contrast and volume on the model using paints from just from one set. There are specific sets designated for Soviet, British, US vehicles and the most recent releases are **for German Camouflage 1943/44 (ref. 78.414), NATO Armour Colors (ref. 78.413) and US Vietnam Olive Drab (ref. 78.412)**. All three sets contain six paint bottles with one bottle of primer that gives the shadow basecoat and five other shades that allow the creation of gradients of the base colour and camouflage. These bottles are smaller than regular Vallejo bottles (8ml or 0.27 fl.oz) and are ready for airbrushing straight ahead after shaking. I tested the performance of the German Camouflage set on my current project, a 1/48 Steyr car, and confirm that these paints work as they supposed to. The primer gave an even coat without any granularity and was dry within minutes, allowing me to quickly proceed with the other shades. When doing small camouflage lines (approx. 1mm) I had to reduce the pressure on my compressor but otherwise it was spraying without trouble. Of course these colours are not limited to the specific subjects they are designed for and I used a grey blue paint from the NATO set to paint the tyres on the Steyr. Another positive thing about them is the inclusion of a simple step-be-step application guide on the back of the package so that even beginners can achieve the light and shadow effects.

Another new product from Vallejo that got my attention is a liquid metallic paint (available for **Silver 790, Copper 797, Old Gold 792 and Gold 791**). They are alcohol based and dry within seconds. These can be polished after drying but the fine metallic pigments mean that this is not really necessary. Finally, for figure painters Vallejo made 2 special sets dedicated to **German Field Grey (ref. 70.181) and Waffen SS Camouflage ref. 70.180)**. These were developed together with Jaume Ortiz, one of the most prolific Spanish figure painters, and both include eight bottles of paint (the regular 17ml size). The Field Grey set contains various shades of (you've guessed it) Field Grey, but the Waffen SS set contains the necessary colours to paint Plane Tree, Oak Leaf and Palm Tree camouflage patterns in both their summer and autumn colours. The step-by-step guide comes in the form of a separate leaflet and is more akin to a magazine article. These are excellent sets but sadly even Vallejo can't promise that they will make you paint like Señor Ortiz! Our thanks to Vallejo for the review samples.

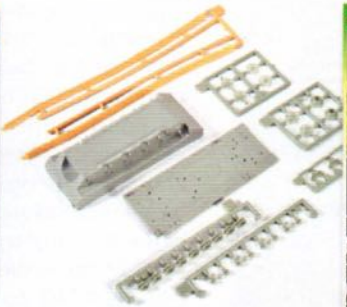
News at the Front

An in-depth look at some of the latest releases

Dragon Models Limited

1/35

David Grummitt



Dragon continue to make the most of their Panzer IV moulds and **Sd.Kfz. 167 StuG. IV Last Production (ref. 6647)** fills an important gap in the ranks. This is the fifth version of the StuG IV Dragon have released, following the Early Version (ref. 6520), Early Version w/Zimmerit (ref. 6576), Mid Production (ref. 6582) and Late Production (ref. 6612). This kit will be familiar to those who have built any of the recent Dragon Panzer IV kits: easy to assemble suspension, great moulding detail and ease of assembly. There are a couple of points to note: first, the kit reverts to the single-run DS Plastic tracks, which modellers will either love or hate, and second, the kit provides the distinctive late-pattern side skirts in metal with the hangings in plastic with some photoetched detailing. These are great and allow the modeller to reproduce a very eye-catching vehicle in a hard-edged three-tone camouflage scheme.

Next up from Dragon we have one of the most widely used German prime movers of World War II along with some towed artillery. **Sd.Kfz. 10 Ausf. A w/5cm PaK38 (ref. 6732)** is a superb kit, containing all you need to model a range of vehicles and scenarios from the period 1941-1944. Dragon first released their Sd.Kfz. 10 three years ago and they have made good use of the moulds, releasing no fewer than nine separate kits based on it. This is a very complete kit with a full engine and transmission, a choice of front tyres, multi-part (and workable if you're careful) tracks, and some nice vinyl masks for painting the windscreen frames. The Pak38 is an older kit that has aged well; you'll probably want to replace the barrel and muzzle brake and the kit one is supplied in two halves and will require some careful cleanup. Markings are provided for three vehicles: two Dark Grey vehicles from the Eastern Front and a three-colour camouflaged vehicle from the Western Front.

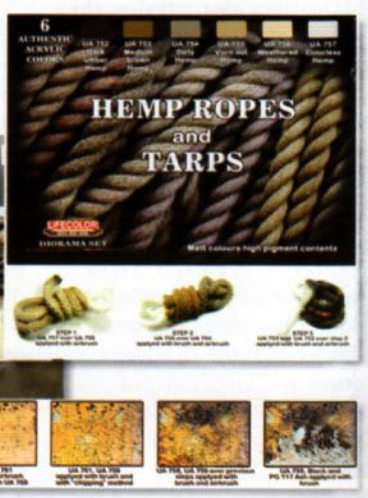
Finally, we have a Small-Scale release from Dragon. **Panzerfähre Fährendeck mit Gepanzerter Landwasserschlepper Prototype Nr. II (ref. 7509)** is a scaled-up version of its 1/35-scale counterpart (ref. 6669). It is also the companion to the Prototype Nr. I kit (ref. 7489) and together the two kits allow you to reproduce the scene shown on the boxart. The Gepanzerter Landwasserschlepper itself is a fine kit, comprising a nice slide-moulded lower hull, various delicately moulded fittings and two lengths of DS tracks. Assembly looks very straightforward and the only possible fly in the ointment are the tracks: the instructions state that they may need to be altered in length to get the proper fit. This looks a superb kit though and together with the Prototype Nr. I kit has all the makings of a great little diorama. Our thanks to the Hobby Company for the review samples, Dragon kits are available from all good model shops.

LifeColor

Various

David Grummitt

Two interesting and useful paint sets from LifeColor this month. **Burned (ref. CS29)** is exactly what it says on the box: five 22ml pots of acrylic paint (Blackened Umber, Exhausted Umber, Rusted Umber, Burned Stains, Incinerated White) and one pot of Ash white pigment. There are some basic instructions on the box showing how to combine the paints in this set with some well-known techniques (such as sponge chipping) to achieve some realistic burned metal effects. **Hemp Ropes and Tarps (ref. CS28)** contains six neutral browns (Dark Umber Hemp, Medium Brown Hemp, Dirty Hemp, Worn Out Hemp, Weathered Hemp and Colourless Hemp) ideal for painting ropes or tarpaulins. Again the box shows a simple three-step painting guide. This is a very versatile set and modellers of all genres will be able to put this set to good use. LifeColor acrylics are available in the UK from the Airbrush Company (www.airbrushes.com), who kindly supplied the review samples.



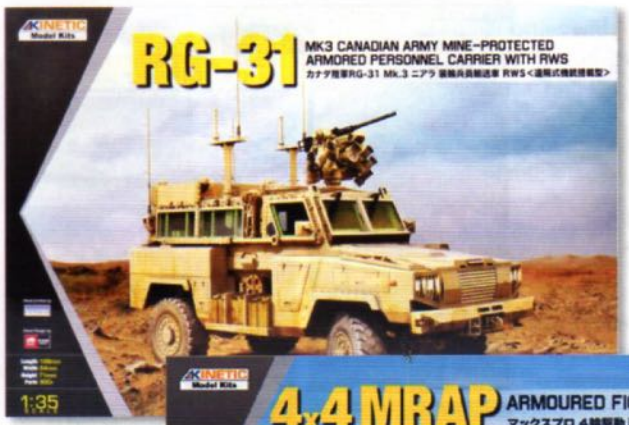
News at the Front

An in-depth look at some of the latest releases

Kinetic Model Kits

1/35

David Grummitt



The International MaxxPro MRAP (Mine Resistant Ambush Protected) vehicle is a joint US-Israeli project which has seen service with the US military in Iraq and Afghanistan. Kinetic's kit, labeled as **4x4 MRAP Armoured Fighting Vehicle (ref. K61011)**, is a MaxxPro MRAP Category 1 (the smaller of the two vehicles produced by Navistar Defence and is a really state-of-the-art kit of a state-of-the-art vehicle. It contains 304 crisply moulded grey plastic parts, 22 photoetched parts, 25 clear and eight black vinyl tyres. The upper hull is provided as a nice one-piece moulding, but as elsewhere in the kits there are a few sink marks that will need attention. The interior is well appointed, but there a few issues, such as the raised moulded detail. The doors can be modelled open and the entry steps feature some crisp anti-slip texturing. The tyres look very good and are about as good as vinyl tryes come (although their diehard opponents will doubtless call for some resin replacements!)

The busy and well-produced decal sheet supplies enough markings for two generic vehicles. This is a really nice kit of an exciting modern vehicle which provides plenty of opportunities in terms of diorama modelling. It's available from Lucky Model (www.luckymodel.com) for a very reasonable $39.99. It's interesting that Panda (the Oshkosh variant, ref. 35001) Riich Models and Bronco Models (the MaxxPro vehicle, ref. CB35142) have also recently kitted the same or similar vehicles. I haven't had a chance to examine the others, but the Kinetic kit will certainly build into a great model.

Also from Kinetic this month we have the second version of their RG-31Mine-Protected APC. R**G-31 Mk. III Mine-Protected Armoured Personnel Carrier with RWS (ref. K61010)** is the US version of this South African-developed APC fitted with the Detroit Diesel engine. Kinetic have made quite a few changes to their 2012 RG-31 (ref. 61012) which includes a newly configured interior, a new radio rack and equipment, RWS (Remote Weapons Station) screen, as well as new window frames, an improved rear door and different top roof hatch layout. Markings are provided for a Canadian ISAF vehicle (their first kit was a US vehicle). The kit assembles nicely, but as with the MRAP there are a few sink marks that will need dealing with. Overall, this is another excellent release that is sure to excite fans of contemporary military vehicles. It's also available from Lucky Model for $45.99.

Tamiya

1/35

David Grummitt

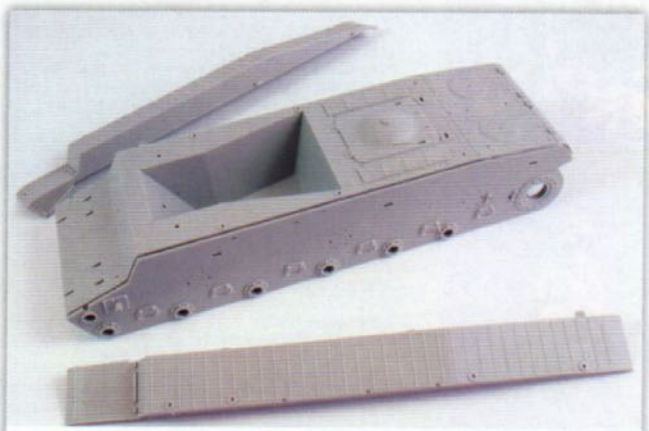
While the US Fuel Truck has captured most of the attention of Quarterscale modellers, the release of a **German Motorcycle & Sidecar Set (ref. 32578)** will also be welcomed by fans of 1/48 scale. The motorcycle in question is, of course, the BMW R75, the most widely used combination of World War II. Tamiya's 1/35 BMW R75 is over forty years old and while the figures have the same pose, this is not merely a scaled-down version of that old campaigner. The kit has 46 parts in dark yellow plastic and all are crisply moulded in typical Tamiya fashion. The bike frame is commendably slim with the gear levers moulded on; the wheels and mudguards are moulded as one piece and the spokes are inevitably overscale, but once assembled they look very good. The figures are quite acceptable for 1/48 scale and with some references and a steady hand it wouldn't be too difficult to detail this kit up with some gear and brake lines etc. Markings are provided for three vehicles: a Wehrmacht bike from the Eastern Front, a Fallschirmjager one from Tunisia and markings for another Luftwaffe vehicle. Overall, a nice addition to the Quarterscale ranks and recommended. Our thanks to the Hobby Company for the review samples, Tamiya kits are available from all good model shops.

News at the Front

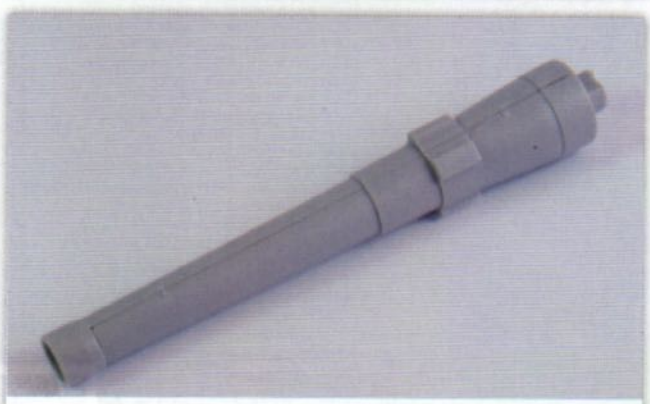
An in-depth look at some of the latest releases

Trumpeter 1/35 Dai Williams

No fancy camouflage schemes here! The painting instructions do, however, give a good impression of the vehicle's ungainly appearance.



The main hull parts are moulded in typical crisp Trumpeter style and the fit is superb.



The gun barrel is a two-part affair, so some old-fashioned modelling skills will be necessary to get it looking perfect.

The S51 was an attempt to mobilise the B4 203mm gun by mounting it on the chassis of the KV-1(S). There is a saying often applied to aircraft that 'if it looks right then it probably is right'. I'm not sure whether you can apply this to an armoured vehicle, but with a huge gun perched precariously on the front this one certainly didn't look right! The design was only partially successful as the chassis was not suitable to carry the heavy gun and the crew were almost completely unprotected. Those familiar with Trumpeter's excellent KV series will find much that they recognise here in Soviet S-51 Self-Propelled Gun (ref. 05583). There are sprues from the KV-1(S) series and from their 203mm artillery piece along with some new mouldings to make up the revised hull top and fenders.

The main parts are in light grey plastic with 322 parts (though a number of these coming from the KV-1(S) kits are not used). The plastic mouldings are good though a trial fit of the two halves of the gun barrel showed that a little filler may be needed here and there. The air intakes on the top of the hull are moulded solid which is a shame as I believe one or two of Trumpeter's KV kits supply etched mesh which would look much better. There are two sprues carrying link and length tracks and these have the track sag characteristic of some Russian vehicles of the period already moulded in. There are some ejector pin marks on the tracks, but thankfully these are slightly raised and so will be easy to clean up. There is a clear fret for headlight lenses and a small photoetched fret with a grill for the rear hull, rifling for the gun and steps for the ladders which may be challenging to install and align. Two thicknesses of string are provided though I would probably replace these with wire or something similar to avoid the 'fuzz' that can sometimes be a problem with this material. A small transfer sheet provides a couple of red flag emblems, but there is no indication in the instructions of where these should be used and photos show that many of these vehicles were unmarked.

Having built a few of Trumpeter's KV kits I can say that the assembly is generally very easy, but maybe a little extra care will be needed with this kit when removing the delicate hand rails from the sprues and dealing with the ladders. Though not explicitly shown in the instructions, the gun shields could be lowered to expand the walkways on the sides of the vehicle which may open up some possibilities for those wishing to add a crew. One improvement that could be made that immediately springs to mind is the addition of torch cut marks to the edges of the hull sides (parts K1 and K2) and some modellers may wish to add some heavier weld seams here and there, but all in all this looks like a great kit and I'm looking forward to getting to grips with it soon!

Trumpeter kits are distributed in the UK by Pocketbond and available from all good model shops.

The Quartermaster's Store

A round up of the latest releases

ACE
French 47mm Anti-tank Gun Mod.1937

Scale:	1/72
Ref:	72529
SRP:	£TBA

See www.acemodel.com.ua

ACE
See www.acemodel.com.ua

Scale:	1/48
Ref:	48105
SRP:	£TBA

See www.acemodel.com.ua
Available in the UK from Hannants (www.hannants.co.uk)

Accurate Armour
Alvis Saracen 6x6 Ambulance

Scale:	1/35
Ref:	K190
SRP:	£110.00

See www.accurate-armour.com

Accurate Armour
Alvis Saracen Mk.1 6x6 APC

Scale:	1/35
Ref:	K191
SRP:	£110.00

See www.accurate-armour.com

Accurate Armour
Alvis Saracen Mk.2 6x6 APC

Scale:	1/35
Ref:	K192
SRP:	£110.00

See www.accurate-armour.com

Alpine Miniatures
'The Defender of Normandy' Set (limited edition – 200 sets)

Scale:	1/35
Ref:	S0004
SRP:	£TBA

See www.alpineminiatures.com

Alpine Miniatures
Italian Paratrooper 'Nembo' Division (incl. optional heads)

Scale:	1/16
Ref:	16025
SRP:	£TBA

See www.alpineminiatures.com

Alpine Miniatures
Panzer Commander #1 (incl. optional heads)

Scale:	1/35
Ref:	35175
SRP:	£TBA

See www.alpineminiatures.com

Alpine Miniatures
Panzer Commander #2 (incl. optional heads)

Scale:	1/35
Ref:	35176
SRP:	£TBA

See www.alpineminiatures.com

Alpine Miniatures
Panzer Commander Set (incl. optional heads)

Scale:	1/35
Ref:	35177
SRP:	£TBA

See www.alpineminiatures.com

Archer Fine Transfers
Red Star Insignias (dry transfers)

Scale:	1/35
Ref:	AR35386
SRP:	$12.50

See www.archertransfers.com

Archer Fine Transfers
French WWII Propaganda Posters (printed paper)

Scale:	1/35
Ref:	AR35387
SRP:	$6.95

See www.archertransfers.com

Archer Fine Transfers
Polish WWII Propaganda Posters (printed paper)

Scale:	1/35
Ref:	AR35388
SRP:	$6.95

See www.archertransfers.com

Archer Fine Transfers
Russian WWII Propaganda Posters (printed paper)

Scale:	1/35
Ref:	AR35389
SRP:	$6.95

See www.archertransfers.com

Art Girona
Marcus Ulpius Traianus, Roman Emperor, AD 53-117

Scale:	54mm
Ref:	AGH-38
SRP:	£23.95

See www.art-girona.com
Available in the UK from Historex Agents (www.historexagents.com)

Art Girona
Celtic Warrior, Early 3rd Century BC

Scale:	54mm
Ref:	AGI-74
SRP:	£21.40

See www.art-girona.com
Available in the UK from Historex Agents (www.historexagents.com)

The Quartermaster's Store

A round up of the latest releases

Art Girona
15th Light Dragoons Trumpeter/Hornist, 1760

Scale:	70mm
Ref:	AZ-7038
SRP:	£38.45

See www.art-girona.com
Available in the UK from Historex Agents (www.historexagents.com)

Balaton Modell
ATS-712 Soviet Artillery Tractor

Scale:	1/72
Ref:	BM7216
SRP:	£TBA

See www.balatonmodel.hu

Balaton Modell
ATS-712 Soviet Artillery Tractor

Scale:	1/72
Ref:	BM7216
SRP:	£TBA

See www.balatonmodel.hu

Beneito Miniatures
Zulu Vignette

Scale:	54mm
Ref:	MD-29
SRP:	£50.95

See www.miniaturasbeneito.com
Available in the UK from Historex Agents (www.historexagents.com)

Beneito Miniatures
British Artillery Officer, 1879

Scale:	54mm
Ref:	MV-118
SRP:	£18.55

See www.miniaturasbeneito.com
Available in the UK from Historex Agents (www.historexagents.com)

Beneito Miniatures
Zulu Warrior #1

Scale:	54mm
Ref:	MV-119
SRP:	£18.55

See www.miniaturasbeneito.com
Available in the UK from Historex Agents (www.historexagents.com)

Beneito Miniatures
Zulu Warrior #2

Scale:	54mm
Ref:	MV-120
SRP:	£18.55

See www.miniaturasbeneito.com
Available in the UK from Historex Agents (www.historexagents.com)

Best Soldiers Studio
'The Confederate'

Scale:	75mm
Ref:	BEST 75011
SRP:	£38.35

See www.bestsoldiershop.com
Available in the UK from Historex Agents (www.historexagents.com)

Dragon Models
Panzerkampfwagen T-34/747(r)

Scale:	1/35
Ref:	6449
SRP:	£TBA

See www.dragon-models.com

Dragon Models
Pz.Bef.Wg. III Ausf. J/Schurzen

Scale:	1/35
Ref:	6570
SRP:	£TBA

See www.dragon-models.com

Dragon Models
Israeli 'Anafa' Helicopter w/Paratroopers

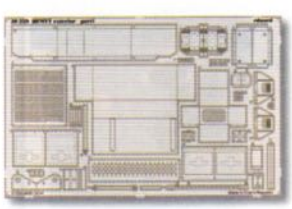
Scale:	1/35
Ref:	3543
SRP:	£TBA

See www.dragon-models.com

Dragon Models
StuG III Ausf. G May 1943 Production mit Schurzen

Scale:	1/35
Ref:	6578
SRP:	£TBA

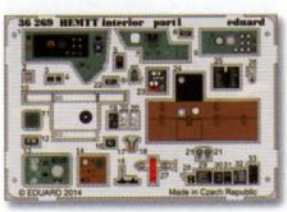
See www.dragon-models.com



Eduard
HEMTT Exterior (part 1)

Scale:	1/35
Ref:	36 259
SRP:	£TBA

See www.eduard.com



Eduard
HEMTT Interior (part 1)

Scale:	1/35
Ref:	36 269
SRP:	£TBA

See www.eduard.com

Eduard/ProfiPack
Pz.Kpfw.VI Ausf.B Tiger II

Scale:	1/35
Ref:	3715
SRP:	£41.75

See www.eduard.com

Evolution Miniatures
Modern Russian Tankman Set-2

Scale:	1/35
Ref:	EM-35097
SRP:	£TBA

See www.evolution-miniatures.com

The Quartermaster's Store

A round up of the latest releases

Evolution Miniatures
Modern Russian Soldiers, 2014

Scale:	**1/35**
Ref:	**EM-35098**
SRP:	**£TBA**

See www.evolution-miniatures.com

Life Miniatures
Gen. Bernard Montgomery

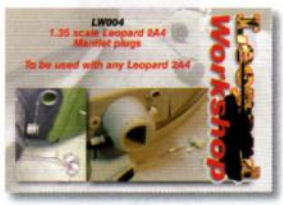
Scale:	**1/10 (bust)**
Ref:	**LMB-010**
SRP:	**£40.00**

See www.lifeminiatures.kr
Available in the UK from Historex Agents (www.historexagents.com)

Leopard Workshop
Leopard 1 Replacement Road Wheels and Idlers (for Meng/TAKOM/Italeri/Revell kits)

Scale:	**1/35**
Ref:	**LW001**
SRP:	**£TBA**

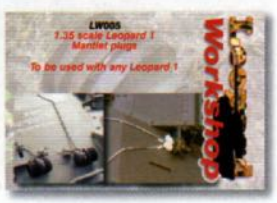
See www.leopardclub.ca



Leopard Workshop
Leopard 2A4 Mantlet Plugs

Scale:	**1/35**
Ref:	**LW004**
SRP:	**£TBA**

See www.leopardclub.ca



Leopard Workshop
Leopard 1 Mantlet Plugs

Scale:	**1/35**
Ref:	**LW005**
SRP:	**£TBA**

See www.leopardclub.ca

MIG Productions
Allied Green (Transformation Set)

Ref:	**P253**
SRP:	**£TBA**

See www.migproductions.com

MIG Productions
German Yellow (Transformation Set)

Ref:	**P254**
SRP:	**£TBA**

See www.migproductions.com

MIG Productions
German Yellow (Transformation Set)

Ref:	**P255**
SRP:	**£TBA**

See www.migproductions.com

MIG Productions
Winter Vehicles (Transformation Set)

Ref:	**P256**
SRP:	**£TBA**

See www.migproductions.com

MIG Productions
Rust and Decay (Transformation Set)

Ref:	**P257**
SRP:	**£TBA**

See www.migproductions.com

MIG Productions
Red Primed (Transformation Set)

Ref:	**P258**
SRP:	**£TBA**

See www.migproductions.com

Minor
Windshield Cover for WWII ¼-ton 4x4 Truck (for Tamiya kit)

Scale:	**1/35**
Ref:	**AVM35001**
SRP:	**€4.50**

See www.minor-web.com

Minor
Canvas Cover for WWII ¼-ton 4x4 Truck(for Tamiya kit)

Scale:	**1/35**
Ref:	**AVM35011**
SRP:	**€6.50**

See www.minor-web.com

Minor
Post-war Jeep Wrecker Conversion Set (for Tamiya kit)

Scale:	**1/35**
Ref:	**VCT35000**
SRP:	**€17.00**

See www.minor-web.com

Minor
GAZ-AA/AAA Detail Set (for MiniArt kit)

Scale:	**1/35**
Ref:	**VMD35026**
SRP:	**€5.50**

See www.minor-web.com

Mirror Models
USA Air Compressor

Scale:	**1/35**
Ref:	**35050**
SRP:	**£TBA**

See www.mirror-models.com

The Quartermaster's Store

A round up of the latest releases

Mirror Models
Russian Artillery Tractor T-20 Komsomoletz (late)

Scale:	**1/35**
Ref:	**35201**
SRP:	**£TBA**

See www.mirror-models.com

Mirror Models
US Diamond T968 Cargo Truck (hard top cab)

Scale:	**1/35**
Ref:	**35803**
SRP:	**£TBA**

See www.mirror-models.com

Model Cellar
British Infantry 1916, Somme

Scale:	**1/35**
Ref:	**MC35102**
SRP:	**$22.50**

See www.modelcellar.com

Model Cellar
WWI British Work Party

Scale:	**75mm**
Ref:	**MC35102**
SRP:	**$39.00**

See www.modelcellar.com

MMK
TATRA 815 4x4 21ER45

Scale:	**1/35**
Ref:	**35036**
SRP:	**€98.00**

See www.mmk.cz

MMK
M-113A1 T50 (Australian Army) Conversion Set

Scale:	**1/35**
Ref:	**F3048**
SRP:	**€24.00**

See www.mmk.cz

MMK
Bulldozer D6K

Scale:	**1/35**
Ref:	**F3050**
SRP:	**£TBA**

See www.mmk.cz

Revell
Sd.Kfz. 164 Nashorn

Scale:	**1/72**
Ref:	**03148**
SRP:	**£11.99**

www.scale75.com

Scale75
Legionary in Germania

Scale:	**75mm**
Ref:	**SCR-008**
SRP:	**£38.75**

See www.scale75.com
Available in the UK from Historex Agents (www.historexagents.com)

SKP Model
Wheels for Opel Olympia (5 wheels)

Scale:	**1/35**
Ref:	**SKP 164**
SRP:	**£7.45**

See www.skpmodel.eu
Available in the UK from Historex Agents (www.historexagents.com)

Soga Miniatures
Crew for Sd.Kfz.10/4 fur 2cm FlaK 30

Scale:	**1/35**
Ref:	**SOGA-3**
SRP:	**$85.00**

See www.soga-miniatures.ru.com

Stalingrad
Russian Refugees, 1941-45 (Big Set)

Scale:	**1/35**
Ref:	**S-3070**
SRP:	**£TBA**

See www.stalingrad.diorama.ru

Stalingrad
Russian Refugees, 1941-45

Scale:	**1/35**
Ref:	**S-3071**
SRP:	**£TBA**

See www.stalingrad.diorama.ru

Stalingrad
Russian Refugees, 1941-45

Scale:	**1/35**
Ref:	**S-3072**
SRP:	**£TBA**

See www.stalingrad.diorama.ru

Stalingrad
Russian Refugee Man, 1941-45

Scale:	**1/35**
Ref:	**S-3073**
SRP:	**£TBA**

See www.stalingrad.diorama.ru

Stalingrad
Russian Refugee Woman, 1941-45

Scale:	**1/35**
Ref:	**S-3074**
SRP:	**£TBA**

See www.stalingrad.diorama.ru

The Quartermaster's Store

A round up of the latest releases

Stalingrad
Russian Refugee Children, 1941-45

Scale:	1/35
Ref:	S-3075
SRP:	£TBA

See www.stalingrad.diorama.ru

Stalingrad
Russian Old Woman, XX Century

Scale:	1/35
Ref:	S-3076
SRP:	£TBA

See www.stalingrad.diorama.ru

TAKOM
Leopard 1A5/C2 (incl. figure)

Scale:	N/A
Ref:	2004
SRP:	£TBA

See www.takom-world.com

Tetra Model Works
Leopard 1A3/A4 Detail Set (for Meng kit)

Scale:	N/A
Ref:	ME-35013
SRP:	£TBA

See www.hobbyeasy.com

Tetra Model Works
Fennek LGS Detail Set (for Trumpeter kit)

Scale:	N/A
Ref:	ME-35014
SRP:	£TBA

See www.hobbyeasy.com

Tetra Model Works
T-80B Detail Set (for Trumpeter kit)

Scale:	N/A
Ref:	ME-35015
SRP:	£TBA

See www.hobbyeasy.com

Tetra Model Works
M2A3 Bradley Detail Set (for Meng kit)

Scale:	N/A
Ref:	ME-35016
SRP:	£TBA

See www.hobbyeasy.com

Tetra Model Works
M1A2 SEP Abrams TUSK II Detail Set (for Tamiya kit)

Scale:	N/A
Ref:	ME-35017
SRP:	£TBA

See www.hobbyeasy.com

Tetra Model Works
Leopard 2A6 Detail Set (for Italeri/Academy kits)

Scale:	N/A
Ref:	ME-35018
SRP:	£TBA

See www.hobbyeasy.com

Trumpeter
Russian TOS-1A Mutliple Rocket Launcher

Scale:	1/35
Ref:	05582
SRP:	£TBA

See www.trumpeter-china.com. Trumpeter kits are imported into the UK by Pocketbond.

Trumpeter
German 37mm Flak 43 Zwilling

Scale:	1/35
Ref:	02347
SRP:	£TBA

See www.trumpeter-china.com. Trumpeter kits are imported into the UK by Pocketbond.

Trumpeter
Soviet KV-8S Heavy Tank

Scale:	1/35
Ref:	05172
SRP:	£TBA

See www.trumpeter-china.com. Trumpeter kits are imported into the UK by Pocketbond.

Trumpeter
PLA Type 86A IFV

Scale:	1/35
Ref:	05557
SRP:	£TBA

See www.trumpeter-china.com. Trumpeter kits are imported into the UK by Pocketbond.

Ultracast
British Empire Tank Commander, North Africa & Italy 1941-45 (incl. optional heads & arms)

Scale:	1/35
Ref:	35053
SRP:	$19.95 (Canadian)

See www.ultracast.ca

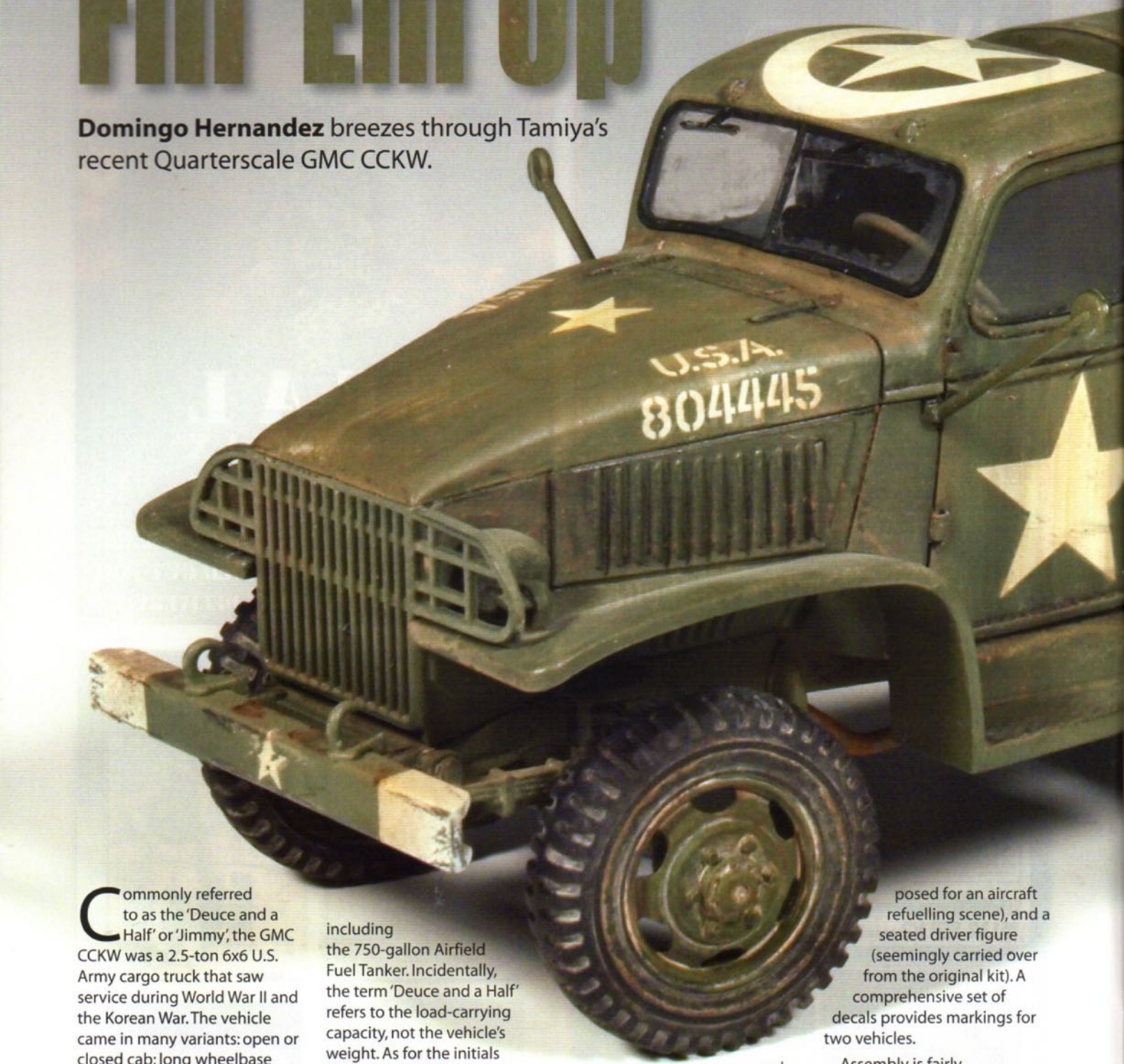
Young Miniatures
German Motorcyclist, Eastern Front WWII

Scale:	1/10 (bust)
Ref:	YM-1849
SRP:	£44.00

See www.young-miniatures.com Available in the UK from Historex Agents (www.historexagents.com)

Fill 'Em Up

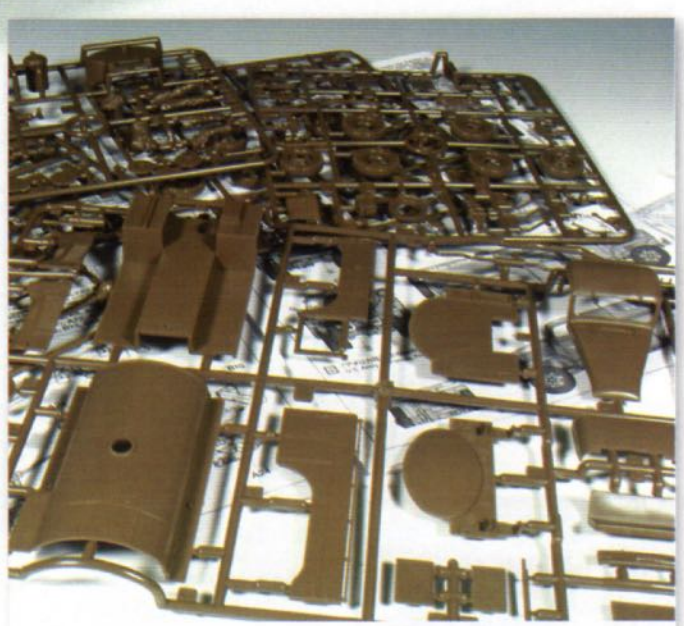
Domingo Hernandez breezes through Tamiya's recent Quarterscale GMC CCKW.



Commonly referred to as the 'Deuce and a Half' or 'Jimmy', the GMC CCKW was a 2.5-ton 6x6 U.S. Army cargo truck that saw service during World War II and the Korean War. The vehicle came in many variants: open or closed cab; long wheelbase (LWB 353) or short wheelbase (SWB 352). Including the DUKW (the amphibious version of the truck), a total of 562,750 were produced prior to and during World War II. The vehicles officially remained in U.S. Army service until 1956, but did not really disappear for a decade or more after that. As well as being a robust and reliable vehicle, the CCKW proved to be particularly versatile. It existed in various configurations, including the 750-gallon Airfield Fuel Tanker. Incidentally, the term 'Deuce and a Half' refers to the load-carrying capacity, not the vehicle's weight. As for the initials 'CCKW', these can be interpreted as: C = 1941 (year of production); C = conventional cab; K = all-wheel drive; W = dual rear axles.

Back in 2007, Tamiya released a 1/48-scale kit of the GMC 2½-ton cargo truck. This was a later version of the vehicle with the soft-top cab. Based on the chassis of this kit, Tamiya now offer the airfield fuel truck. Apart from the fuel tank, the main difference is that this is an early hardtop version, as identified by the metal roof and full-height doors. The kit comprises 145 injection-moulded parts, six clear parts for windows and light lenses, a length of vinyl tube and a length of metal wire. Whereas the earlier kit had a metal chassis, this has been replaced with a plastic one which is so much easier to work with. Also included are two standing figures (suitably posed for an aircraft refuelling scene), and a seated driver figure (seemingly carried over from the original kit). A comprehensive set of decals provides markings for two vehicles.

Assembly is fairly straightforward. In fact, the model could be easily built in the space of a few hours. The option of having the cab doors and near-side hose locker open is ideal for those wishing to incorporate the vehicle in a diorama setting. However, as I planned this to be a stand-alone model, I decided to leave these closed to simplify the painting process.



Typical of Tamiya's current range, the kit is marked by quality moulding and an impressive level of detail. While there is plenty of scope for improvement, this promises to be a decent out-of-the-box build.

The basic construction is simplicity itself. With the option of open cab doors and side locker, this offers a number of diorama possibilities, particularly for those with an interest in aircraft.

With the model primed, the painting sequence continued using Vallejo's 'US Army Olive Drab' set (ref. 78.402). This provides a series of base colours in half and quarter tones, perfect for creating highlights and shadows.

Once the basic painting was completed, I allowed the model to dry before applying a coat of satin varnish. Decal markings were now positioned with the help of Microscale's Set & Sol products.

Although the decal sheet includes the front and rear bumper markings, I felt a better result would be achieved by masking off these areas and painting them with Vallejo 951 (White).

A couple of coats of satin varnish were applied to ensure that the decals would not be affected by the subsequent weathering.

Using a combination of Tamiya XF-57 (Buff) and XF-52 (Flat Earth), these were applied to areas where dust and dirt would naturally accumulate around the vehicle. Being careful not to overstate the effect, I also decided to remove some of this colour to increase the definition.

Conclusion

Based on one of the most widely produced cargo vehicles of World War II, the Airfield Fuel Truck is certainly an interesting subject. Whether presented as a single piece, or incorporated in a vignette/diorama setting, this recent quarter-scale kit from Tamiya is certain to appeal to both military and aircraft modellers alike.

Availability

Tamiya 1/48 US 2½ Ton 6x6 Airfield Fuel Truck (ref. 32579) is available from all good model shops.

Various oil colours were now used to create some tonal variety around the model.

Using MIG Productions' P220 (Dark Wash), I allowed this to flow into all panel lines and around raised details. Any excess was simply removed with a swab.

A medium rarely used by modellers, watercolour pencils are excellent for applying specific weathering effects. The wide range of colours and the fact they can be applied in a controlled manner make these ideal for use on both vehicle and aircraft models. Being water-soluble, they are easy to blend with a moist sponge.

Diluted with water, MIG's P027 (Light Dust) and P028 (Europe Dust) were now brushed over the rear areas of the model to add further weathering.

The chassis received a similar treatment, with the addition of 502 Abteilung's Abt160 (Engine Grease) mixed with pigment to replicate fuel and oil stains around the transmission area.

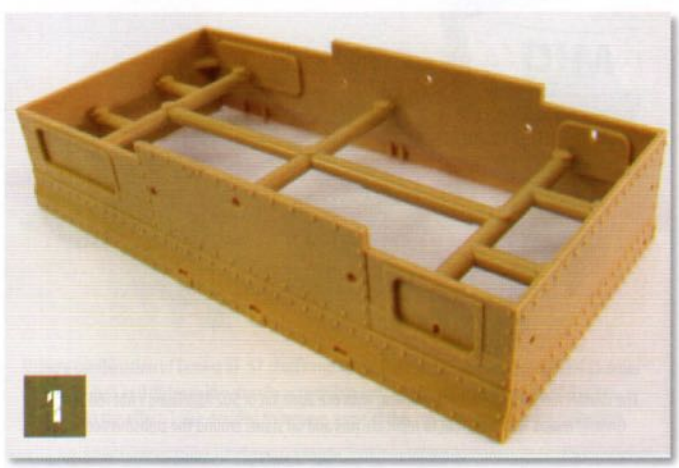
Béhémoth à Français

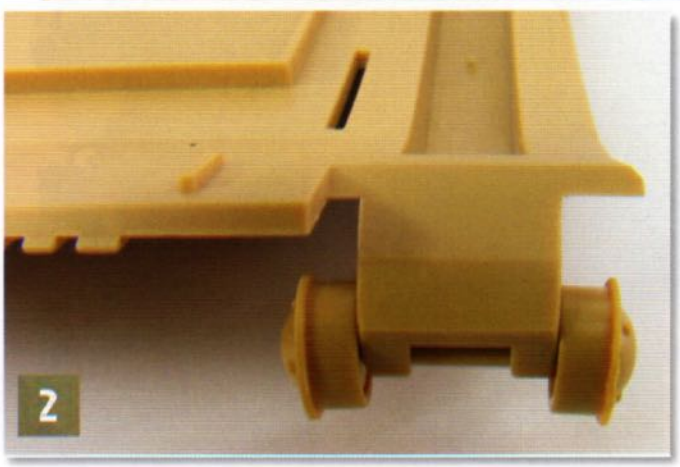
Kamil Felix Stzarbala tackles Meng's French monster tank.

As we approached 2014, unsurprisingly, certain model companies decided to reflect the centenary of the outbreak of the Great War in their kit release plans. Meng Models started the ball rolling by releasing an excellent 1/35-scale kit of the Renault FT Modèle 1917, which could be regarded as the true ancestor of the modern tank. It would appear that kit was a success because it was soon followed by the Char 2C (also known as FCM 2C). Oddly, although this super-heavy tank was developed during World War I, it never made its way to the frontline. In fact, only ten were built after the end of hostilities. They received their fifteen minutes of fame during the French mobilisation of 1939, where they were used for propaganda purposes (hence the choice of paint schemes suggested in the kit).

Assembly

The large box with its superb artwork draws our attention immediately, and the contents certainly live up to expectations. The numerous sprues include a vast array of finely reproduced components. Quality moulding and crisp detail are typical features of Meng's kits, and this one is no exception. I could find very few sink marks or ejector pin marks in areas that would be visible on the completed model. The superstructure and both turrets are slide moulded one-piece elements, which avoids the need to assemble these sections from a large number of parts **(photo 1)**. I did notice some faint seams around the turrets, but these were quite simple to remove with fine-grade sandpaper. The tracks are presented as individual links, and can be simply clicked together to make them fully workable. However, I would

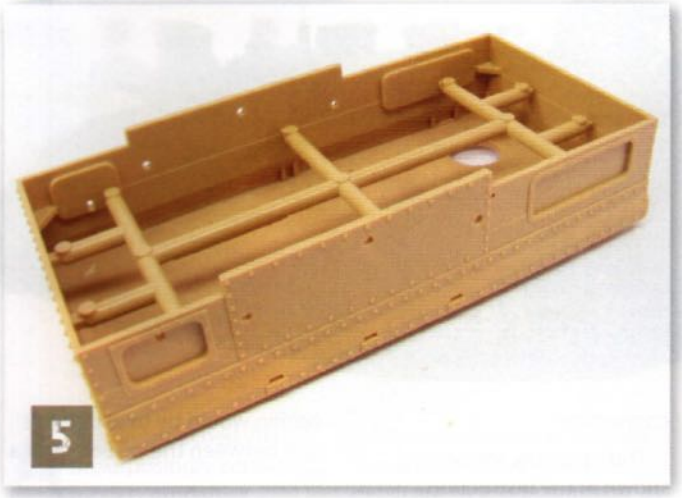

1


2

recommend using glue to ensure a secure and lasting connection.

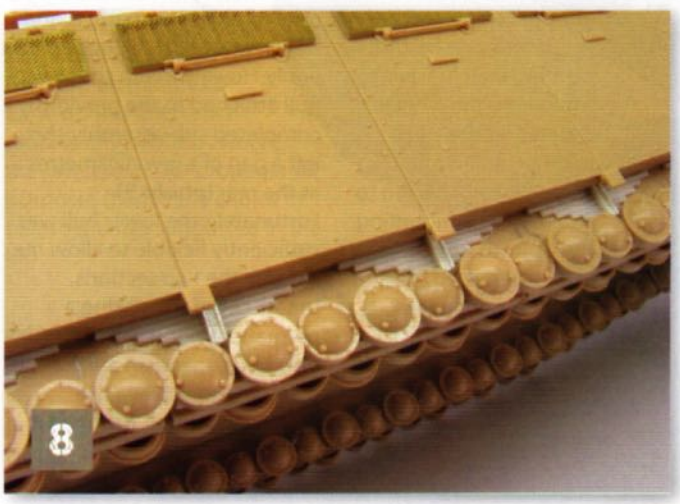
The assembly sequence shown in the instruction manual is quite logical, and unlikely to cause any major problems. With this in mind, I began by preparing the road wheels. There are almost eighty of these, and each one is composed of two parts. To make life simple, I removed all the parts, arranged them into separate groups, and assembled each wheel one by one. Unfortunately, having completed the wheels, I found that the three leading wheels had insufficient spacing to fit the hull mounting **(photo 2)**. I attempted to use sandpaper to reduce the thickness of the sponson, but soon realised that the better option would be to widen the gap between the wheels with a file.

With all the wheels in place, it was simply a case of gluing the retaining strip over them. The drive sprockets required some attention, as their inner faces had been distorted during the moulding process. Even though this would be concealed on the completed model, I decided to correct these parts. To make this easier, I created a special file made from sandpaper glued to a piece of thick styrene sheet. I also had to sand the differential housings. Subsequent assembly stages were generally trouble-free. The fit of all components related to the hull sides was perfect, and they mated with the upper hull easily. However, with the lower hull attached to the previously completed sub-assembly, this left a gap of a few millimetres at the rear **(photo 3)**. Fortunately, the lower hull was sufficiently flexible to allow me to force the two sections together, before making a permanent bond with CA glue. I only had to sand an area of the side edge to achieve the correct alignment **(photo 4)**.


5

6

7


8

9

As I had decided to depict the tank without its wheel covers, I needed to fill the mounting holes. Conveniently, I was able to remove the projections from the covers, and insert these into the holes for a perfect fit. Removing the seam along the rivets on some parts of the superstructure was quite time-consuming. Firstly, I cut it away with a sharp blade, and then smoothed the surface with a layer of Tamiya Extra Thin Cement. As they would cause no obstruction to the assembly, I avoided removing the superstructure's internal sprues, as they would give some rigidity to this large part **(photo 5)**. With the hull and superstructure joined, I began to add the details to the engine housing. To prevent any damage to the thin pipes, I used a razor saw to remove these from the sprue.

The next task was to assemble the turrets. As well as removing the mould seams, I needed to correct the shape of the machine-gun mantlet mount, and modify the opening in the turret front. Feeling that the cupola hinges were rather simplified, I opted to replace these with lengths of stretched sprue. Disappointingly, the 75mm gun barrel is a two-part moulding. Having joined the two halves, I had to sand the seam and drill out the muzzle opening **(photo 6)**.

Requiring minimal preparation, the tracklinks could be assembled into lengths of ten, before being joined to form the complete run of track. I must admit, leaving the suspension articulated certainly helped when installing the tracks.

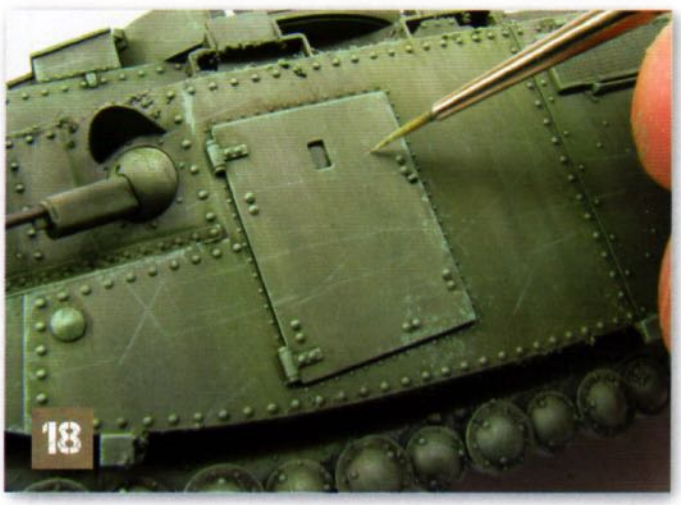
Having indulged in a spot of 'kid's fun' by

running the tank along the table a few times, I removed the tracks, turrets and exhaust systems to make the painting easier **(photo 7)**. Although the lower parts of the suspension would be partly covered with mud, the lack of detail in this area still bothered me. Therefore, I decided to reproduce the leaf springs of the bogies from pieces of styrene sheet **(photo 8)**. As for the mud itself, I recreated this by applying various grades of Vallejo Acrylic Paste to the hull and around the suspension **(photo 9)**.

Painting

I began by spraying Tamiya XF-1 (Flat Black) to the running gear. I also darkened some of the details, and created depth to the recesses between the armour plates. A series of vertical lines were now added using XF-62 (Olive Drab), and certain areas received further pre-shading with patches of heavily diluted dark green paint **(photo 10)**. It was now time now to apply the base coat. For this, I applied several light coats of Mr.Hobby H64 (RLM71 Dark Green) **(photo 11)**. I then highlighted edges and details with heavily diluted Mr.Color C25 (Dark Seagray). I also applied some vertical smudges to the sides of the hull and turrets. Again heavily diluted, Mr.Color C69 (Off White) was used to accentuate various details and the most exposed edges of the vehicle. Before dealing with other colours, I toned down the shadow around the running gear with a thin mist of Tamiya XF-63 (German Grey) **(photo 12)**. To give the impression of polished steel on the wheels' contact surfaces, I painted these with Vallejo 70.790 (Silver) **(photo 13)**. I then applied XF-63 (German Grey) to the exhausts, followed by a coat of AK Interactive's AK 088 (Worn Effects Fluid). Applying the decal markings caused no problems at all. Once these were in place, the entire model received a coat of satin varnish **(photo 14)**.

To redefine the surface details, I applied a generalised wash of AK 045 (Dark brown Wash for Green Vehicles). Any excess was removed with a long-bristle brush moistened with AK 049 (Odorless Thinner). Vertical strokes were then made to give the impression of stains and streaks **(photo 15)**. A wash of AK 026 (Slimy Grime Dark) was applied to specific areas to relieve the monotone appearance. A mix of Vallejo 70.986 (Deck Tan) and 70.920 (German Uniform) was then drybrushed over raised details, paying particular attention to the large number of rivets around the vehicle **(photo 16)**. Returning to the exhausts, I airbrushed the mufflers with various tones from LifeColor's 'Dust & Rust' set, diluted with Ammo's Acrylic Thinner. Once dry, the surfaces were moistened with water, before being scrubbed with a kitchen scourer. Small amounts of contrasting rust tones were then brushed on to create further depth and variety to the appearance **(photo 17)**.



Weathering

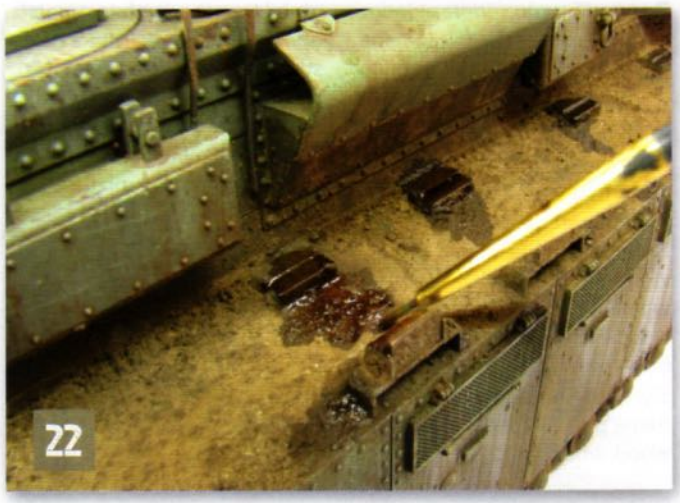
With the basic painting complete, I began the weathering process by replicating the scratches and chipped paintwork. I used the same paint mix as for the drybrushing, but this time diluted **(photo 18)**. I then added some darker paint to the middle of some of these chips to suggest heavier paint chipping. To recreate the impression of rainmarks, I set my airbrush to minimal air pressure, and sprayed tiny drops of AK 014 (Winter Streaking Grime) onto the surface. This was promptly followed by a similar application of AK 075 (Rainmarks for NATO Tanks). Now using a cotton bud moistened with white spirit, I spread the enamel over the surface, and also removed any excess. The important thing was to roll the cotton bud, rather than

rubbing it across the surface **(photo 19)**.

I now turned my attention to the lower hull. The lower areas of the hull were sprayed with an earth-tone pigment mixed with isopropyl alcohol. Now using a brush dampened with the isopropyl alcohol, I applied some vertical smudges. Once this had dried the model was now ready for further treatment with pigments. Having poured various shades of pigment over the upper part of the sponsons, I mixed these randomly before fixing them with lighter fluid. The pigments, combined with the previously applied Vallejo acrylic pastes, allowed me to reproduce the appearance of mud that had accumulated in the various recesses around the hull **(photo 20)**. I now mixed these pigments with a small amount of fine sand and lighter fluid. Using a wet toothbrush, this paste was speckled over the running gear area **(photo 21)**. Once the muddy mixture had dried, I began to spread it across the surface, and removed the excess with a brush that had been moistened with white spirit. Using the same paste, I applied this with a brush to the lower hull, again removing any excess as before.

To recreate oil stains around the vehicle, I used AK 084 (Engine Oil). Because this loses its intensity when absorbed into the pigments, it was necessary to add further layers until satisfied with the appearance **(photo 22)**. I also airbrushed a mist of heavily diluted AK 084 under the vents in the hull sides. Since I had used a lot of enamel and oil-based products, I needed to allow them to dry thoroughly (24 hours in a warm room is normally sufficient).

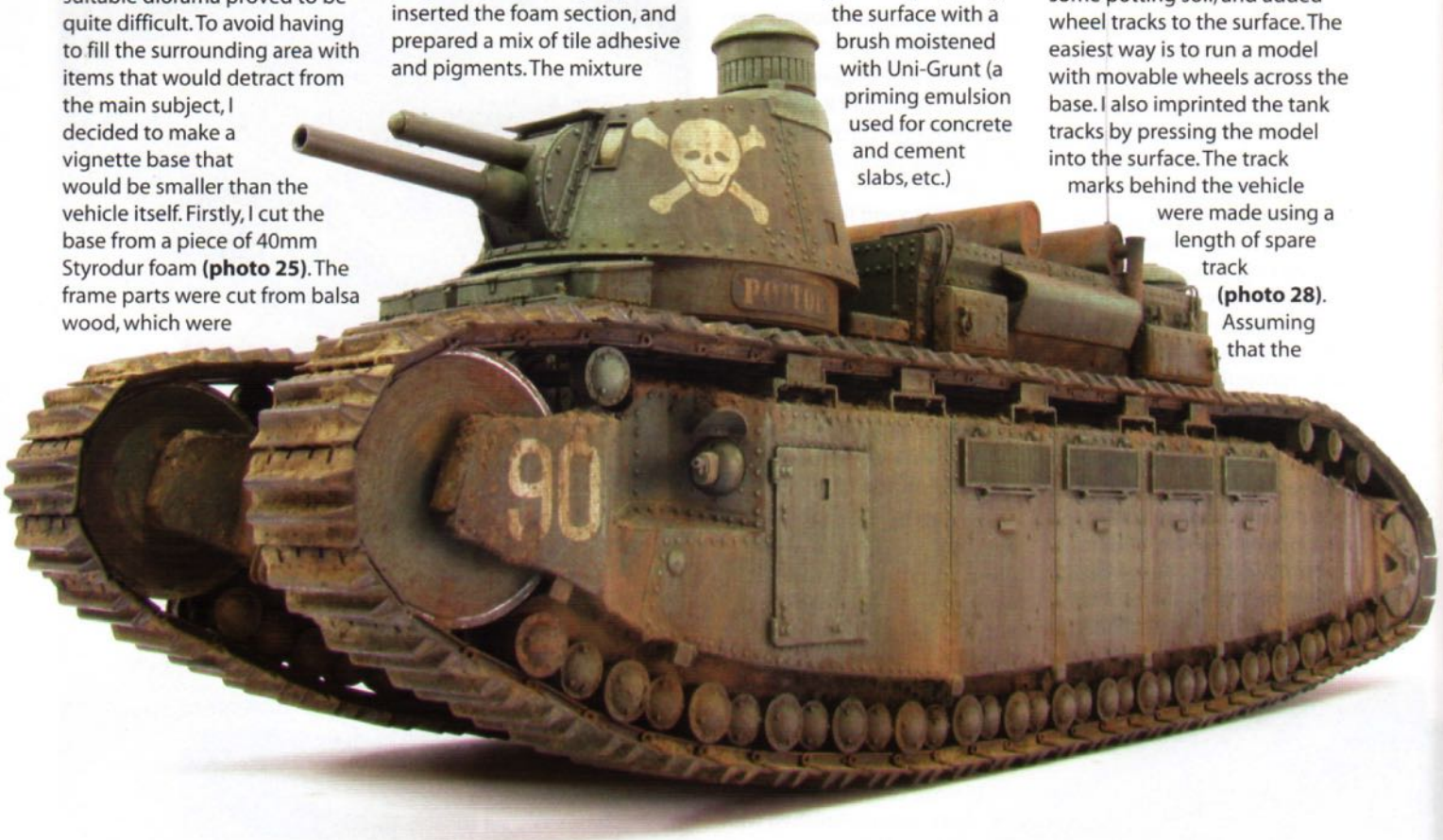
The final items to be painted were the tracks. These were given an initial coat made from a mix of XF-63 (German Grey) and XF-64 (Red Brown) with a touch of XF-56 (Metallic Grey) **(photo 23)**. Next, I gave the surfaces a semi-gloss finish by spraying a transparent layer of heavily diluted Mr.Hobby H095 (Smoke Gray). The edges were now drybrushed with Vallejo 70.864 (Natural Steel) and, although the result would be almost invisible on the finished model, I lightly washed the tracks with LifeColor UA702 (Rust Base Color). As with the hull, I now applied the pigments and fixed them with lighter fluid **(photo 24)**. Once the tracks had dried, I used my fingertip to rub the edges with MIG Productions' P231 (Gun Metal) pigment. The completed tracks were attached to the wheels with Tamiya Extra Thin Cement.

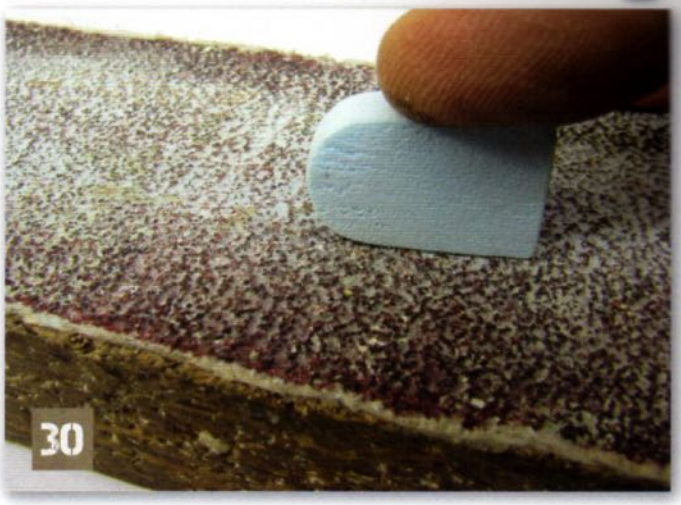


Base

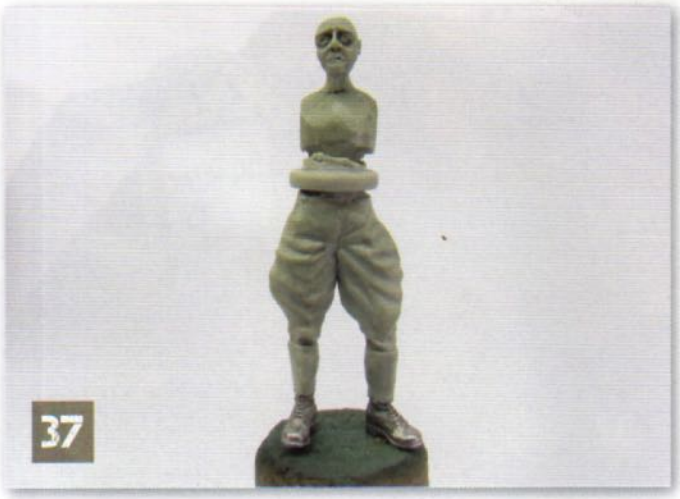
Due to the shape and size of the vehicle, composing a suitable diorama proved to be quite difficult. To avoid having to fill the surrounding area with items that would detract from the main subject, I decided to make a vignette base that would be smaller than the vehicle itself. Firstly, I cut the base from a piece of 40mm Styrodur foam **(photo 25)**. The frame parts were cut from balsa wood, which were glued together with two-part epoxy adhesive to form a box structure. Having reduced the height of the box slightly, I inserted the foam section, and prepared a mix of tile adhesive and pigments. The mixture was then applied to the surface with a spatula **(photo 26)**. I created the the final texture of the ground by tapping the surface with a brush moistened with Uni-Grunt (a priming emulsion used for concrete and cement slabs, etc.) **(photo 27)**

Before the ground had completely dried, I poured on some potting soil, and added wheel tracks to the surface. The easiest way is to run a model with movable wheels across the base. I also imprinted the tank tracks by pressing the model into the surface. The track marks behind the vehicle were made using a length of spare track **(photo 28)**. Assuming that the





ground would be quite soft, it was important to include boot prints around the crew figures. Once the groundwork had fully dried, I airbrushed a selection of AK Interactive's enamels over the surface to provide contrast and variety to the underlying colours. To add some interest to an otherwise empty corner, I applied vegetation (compliments of Polák Model) **(photo 29)**. Looking at the base and realising that something else was required, I decided to add a milestone. The basic shape was cut from Styrodur foam. The stone texture was simply achieved by pressing the foam against a piece of coarse sandpaper **(photo 30).** I used 0.25mm plastic sheet to make the enamel signs often found on such milestones. Using a piece of sponge, thick acrylic paint was stippled onto the surface to create a suitable stone colour. The enamel signs were brush-painted, with green streaks and spots added to show some weathering. The lettering was applied freehand using a fine-pointed brush and diluted Tamiya paint **(photo 31)**. The various elements were finally attached to the base using two-part epoxy adhesive. CA glue was certainly not appropriate here, as it would rapidly melt the Styrodur foam! **(photo 32)**



Figures

What the vehicle needed now was some crew figures. I decided to sculpt these, based on a photograph of FCM 2C 'Poitou' that had been provided by my friend, Maciej Góralczyk. Beginning with the heads, I rolled out four balls from two-part epoxy putty and attached these to toothpicks. Once the putty had partially cured, I corrected the shape of rear part of the skulls. Now I could sculpt the faces. With more putty applied, I shaped the basic features with a plastic DIY tool. Tiny balls of putty were placed into the eye socket, and a sharpened bamboo stick was used to create the basic shape of the eyelids, which were then smoothed and given their final shape with a wet brush **(photo 33)**. A similar method was used to form the nose and mouth. Of course, I had to allow each addition to cure before proceeding to the next stage. Satisfied with the result, I repeated the process on the remaining heads.

Rather than wasting the leftover putty, I tend to collect this to be used when building the torso and pelvic area. I sanded the small blocks to the basic shape, and connected them with lengths of steel wire **(photo 34)**. Having decided on suitable poses, I started to refine the shape of each body by applying small amounts of the putty. When creating a figure in this way, the body needs to be proportionally thinner than a real naked body. This is because it is almost impossible to sculpt clothing that would have an in-scale thickness of fabric. Applied in layers, the putty was used to form the trousers, and shaped with my plastic tool **(photo 35)**. This was now used to create folds and creases, and a thin spatula used to add the side seams. A wet brush was used to smooth the surface. As you can see, no specialist tools

are required … simplicity is the key **(photo 36)**. The trousers of the remaining crewmen were then created in the same manner. Before moving on to the jackets, I applied thin rolls of putty in appropriate areas to form the basis for the belts **(photo 37)**. I employed similar techniques to create the pockets, and used a thin spatula to add the stitching **(photo 38)**. Work then continued by adding sleeves, collars, cuffs and belt buckles. Having drilled a series of holes, I inserted lengths of wire or plastic rod. Once trimmed down and carefully sanded, these gave the perfect impression of buttons ... a fairly tedious operation, but well worth the effort **(photo 39)**. The figures were now early ready, final details included cigarettes and pipes made from plastic rod **(photo 40)**. After a few minor corrections, the figures were ready for casting. Once cleaned up, they received a coat of grey primer.

The base colours were applied with an airbrush. This allowed me to utilise colour modulation by spraying darker tones from the bottom and lighter ones from above. The faces and hands were brush-painted with Vallejo acrylics in accordance with the 'Jaume Ortiz' formula (a world renowned Spanish figure modeller – ed.) **(photo 41)**. Using heavily diluted paints, I accentuated shadows and highlights, as well as adding the various uniform details. The final touch was to airbrush the fabric parts of the uniforms with clear matt varnish. To provide a suitable contrast, the leather jackets were given a layer of satin varnish **(photo 42)**.

Availability

Meng Models' 1/35 Char 2C French Super Heavy Tank (ref.TS-009) is available from good model shops.

Showtime AMT Torrent 2014

Federico Collada reports on Spain's premier modelling event.

Asociación Modelista Torrent

The annual Torrent show, organized superbly by the Asociación Modelista Torrent, was held in the small Spanish town of Torrent, just outside Valencia, over the weekend of 25-27 April. To mark the twentieth anniversary of the show (and the centenary of the outbreak of World War I) a specially sculpted figure, showing a British infantry officer going 'over the top', was commissioned for sale at the show. Almost 1000 models were on display in what must be one of Europe's premier modelling competitions, with military, aviation, sci-fi and civilian subjects on show. Outside the show hall were a number of stands for vendors, while visitors were regaled by a number of reenactment groups. Here is a selection of military models that caught my eye.

Pere Pla's M42 Duster took a silver award.

Vincenzo Lanna's destroyed M1070 was a study in extreme weathering and also took silver.

Vincente Muñoz's Sd.Kfz. 7 towing a 15cm howitzer won bronze.

Another superbly finished piece, this time Antonio Martin Tello's Staghound.

Miguel Perez Blasco's Small-Scale CA1 Schneider won a gold medal.

It was a special gold medal too for Miguel Perez Blasco for this superb D9R.

Yuriy Sedov made a good job of Meng Models' Tiger all-purpose vehicle.

A nice Small-Scale Jagdtiger by Juan Carlos Larumbe Zuibria won bronze.

A selection of the excellent models on show in Class M2, military vehicles smaller than 1/35 scale.

Jose Moral Bravo's Achzarit APC was typical of the high standard of modern AFVs on show.

A nicely finished Beutepanzer Char B1 Bis.

Bronco Models' Humber Mk. IV Armoured Car finished making full use of the clear parts to show off the full interior.

'Hell in the Forest' won bronze for Jorge Porto del Corral.

'The Briefing', featuring a KV-1 on the Lenningrad Front, by Jose Antonio Velazquez Encinas.

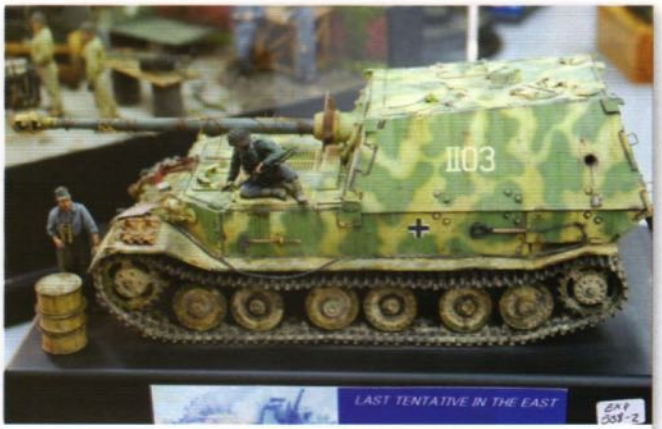
This Tiger I diorama, again by Jose Antonio Velazquez Encinas, was nicely composed earning its builder a silver.

'Tank Workshop Italy Post War' won silver for Vincenzo-Allessandro Lanna-Bruschi.

'Reza algo por el pobre bastardo' ('Say something for the poor bastard') by Fernando Granell Bosch.

One of several Renault FT-17s on display.

One of a number of Berlin 1945-themed dioramas: this one by Jose R. Villaverde and Cesar Gonzalez, featured some spectacular architectural modelling.

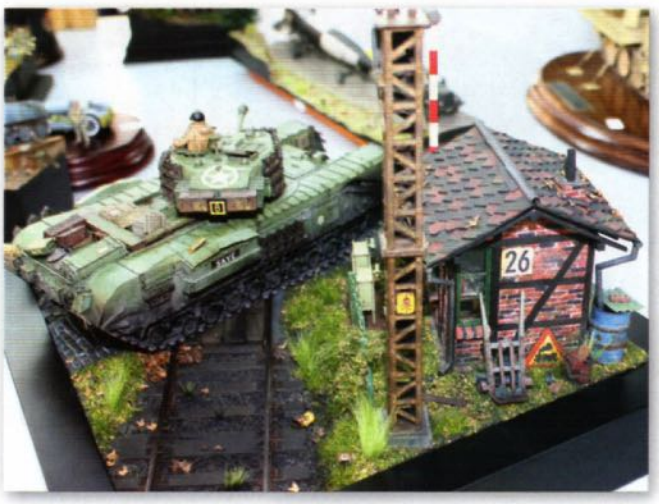


A beautifully finished Ferdinand tank destroyer in 1/35 scale.

Guillermo Marti Pujol's AML H90 GLC IV 1979 was a superb scratchbuilt effort.

A SELECTION OF SOME OF THE OTHER MODELS THAT CAUGHT OUR EYE ON THE COMPETITION TABLE.

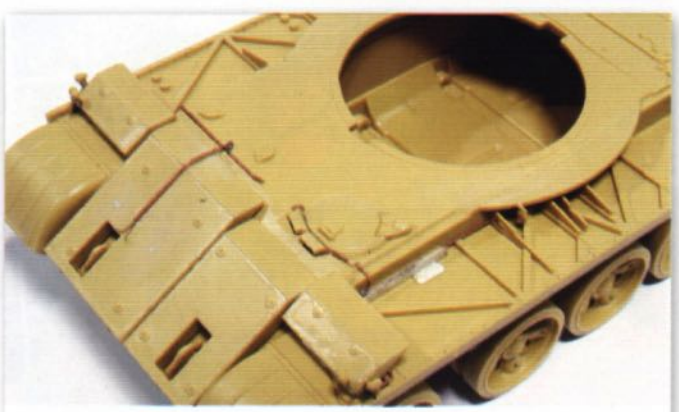
Canadian T17
Staghound


26

26

The T-55 is one of the most recognisable tanks of the post-War era. Born out of Cold War necessity, it has been a mainstay of many armies throughout the world during the late twentieth and twenty-first centuries. It has seen combat in many wars, particularly those in the Africa and the Middle East, but its origins lay in the massed armoured warfare doctrines of the Cold War. Due to certain design limitations with the T-44 (notably its lack of firepower), the first prototype of the T-54 appeared in March 1945. Full production began two years later, the tank being adopted as the standard weapon for armoured units of the Soviet Army, and other Warsaw Pact countries. With a series of key improvements, this led to the development of the T-55. Testament to their success, the T-54/T-55 series were to be the most-produced tank in history; estimated production numbers range from 86,000 to 100,000.

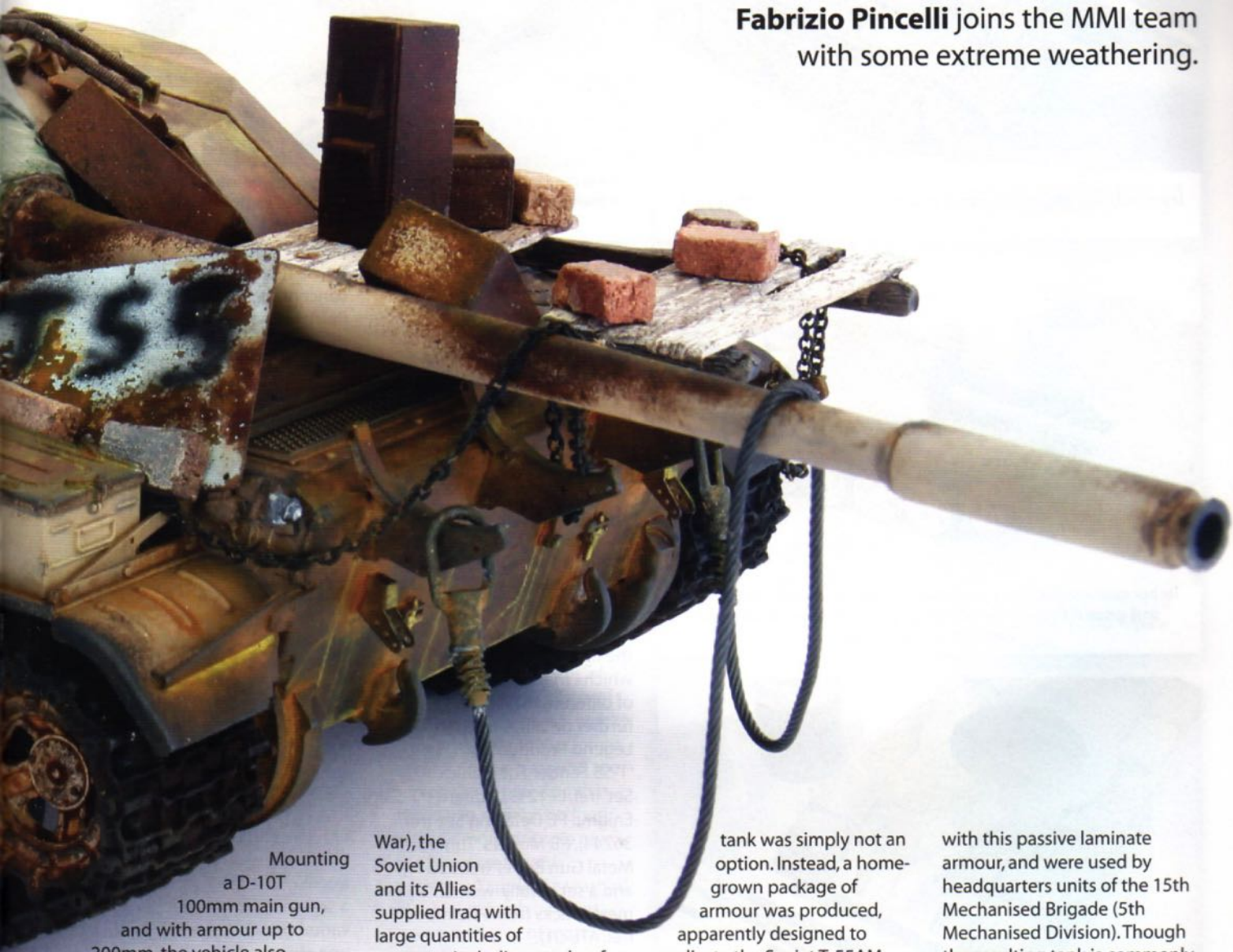
Detailing the armour panels was simply a case of adding lengths of stretched sprue attached with Tamiya Extra Thin Cement. Once completely dry, these were textured with the tip of a modelling knife.



Missing from the kit, the electrical cables were made from copper wire of various thicknesses.

THE BOOTY OF WAR

Fabrizio Pincelli joins the MMI team with some extreme weathering.



Mounting a D-10T 100mm main gun, and with armour up to 200mm, the vehicle also benefitted from being relatively cheap and easy to produce.

In the late 1970s (and more so during the 1980-88 Iran-Iraq War), the Soviet Union and its Allies supplied Iraq with large quantities of weapons including stocks of obsolete T-55s. Following the war with Iran, the country was in financial crisis, so purchasing the necessary upgrades to the tank was simply not an option. Instead, a home-grown package of armour was produced, apparently designed to replicate the Soviet T-55AM system. Immediately prior to the 1991 Gulf War, a small number of Iraq's T-55s and Chinese-made T-69s were fitted with this passive laminate armour, and were used by headquarters units of the 15th Mechanised Brigade (5th Mechanised Division). Though the resulting tank is commonly referred to as 'Enigma', this name was never adopted by the Iraqis.

Though adequately detailed, the kit's gun barrel was replaced with a turned-metal item from RB Model. Similarly, I decided to substitute the one-piece vinyl tracks with a fully workable set from Friulmodel.

Eduard's photoetch set includes various details that are either poorly defined in the kit, or simply not present. With the model fully assembled, time to make a start on the painting and weathering.

Legend Productions' detailing set provides all the necessary items to enhance the kit's fuel tanks.

Rather than priming the model in the usual way, I began by cleaning the surfaces with pure alcohol, followed by a coat of matt varnish. I now applied a coat of AK Interactive's AK 709 (Old Rust) to areas that would be subject to heavy corrosion, followed by a layer of Heavy Chipping Fluid.

The base colour was formed from a mix of Tamiya XF-57 (Buff) and X-22 (Clear Varnish). With a small amount of X-2 (Gloss White) added, I highlighted certain areas of the model, and accentuated all the raised details.

Using a stiff brush moistened with warm water, I began to remove portions of the base coat to replicate the corroded surface.

Combining Black, Buff and White oil paint, I applied this to give the impression of accumulated dust over the vehicle. Once mixed, the colour was brushed into all recesses. White spirit was then used to form a wash and spread the colour across the surfaces.

The Model

Having built several Soviet tank models over the years, the T-55 'Enigma' was always destined to be an addition to my collection. The obvious choice was the Tamiya kit (ref. 35324). Released in 2002, the kit combines a high level of detail, general accuracy, and ease of assembly. Of course, certain improvements could be made. These included using lengths of stretched sprue, textured with the tip of a knife to replicate various weld seams; and adding the missing electrical cables, which I made from copper wire of different diameters. To add further details, I used Legend Productions' 'T-55 Fender Fuel Tank Set' (ref. LF1219), Eduard's 'T-55 Enigma PE Detailing Set' (ref. 36244), RB Model's 'Turned-Metal Gun Barrel' (ref. 35B41), and a set of fully-workable metal tracks from Friulmodel (ref. ATL-01).

Weathering

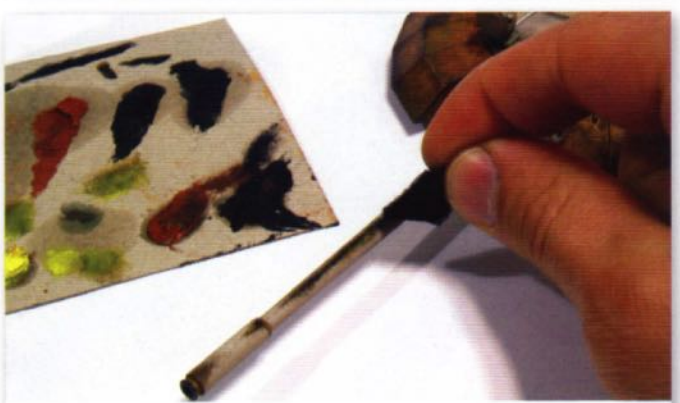
The assembly of Tamiya's T-55 has been dealt with many times before and many readers will be familiar with it in its many configurations. In this article then I want to concentrate on the distinctive finish I aimed to achieve on my model. So, with the assembly and basic painting complete, I turned my attention to the weathering and extensive corrosion. While there are now specially formulated products on the market for these effects, I decided to rely on oil colours. I also found that by using the 'sponge' technique, and allowing most of the oil to be absorbed on a piece of card, this created a characteristic rough surface to the areas of rust. The only drawback with using this medium is the fact that it requires a couple of days to fully cure. Once satisfied that the surfaces were dry, I applied a coat of varnish before adding a series of filters to modify the various tones. Again using oils, I was able to blend the colours, and correct any errors while they were still workable.

Cassel Brown Earth diluted with white spirit was used to create a series of pin washes in all recesses.

Various oil colours (again diluted with white spirit) were now used to recreate the differing rust tones. Adding more white spirit to certain areas helped to modify the shades, and create a typical streaking effect.

To give the impression of the tank being abandoned, I added appropriate items including a broken wooden pallet (made from balsa wood), rusted chains, bricks and lengths of rope. Some of the armour blocks were also randomly positioned around the vehicle, suggesting that these had been dislodged from their mountings. To give the pallet a weathered appearance, I applied a wash of Cassel Brown Earth oil paint, followed by a coat of matt varnish. Over a layer of AK Interactive's Chipping Fluid, I applied Tamiya White, and began to remove portions of this using a stiff brush moistened with water.

After 48-hours drying time, I applied a coat of varnish before proceeding with filters to add further changes to the rust tones. Using both a fine-pointed brush and a sponge helped to replicate the pitted surface to the corroded areas.



The 'sponge' technique was also used to recreate the chipped paintwork on the gun barrel.

Here you can see the turret after its full weathering/rust treatment.

Once painted, the wheels were treated to a wash of 502 Abteiling's Abt035 (Buff) to simulate dust. I now applied MIG Productions' P410 (Oil and Grease Stain Mixture) to the hubs, being careful to vary the appearance on individual wheels.

Returning to the sponge treatment, I combined Cassel Brown Earth and Burnt Umber oils to replicate the chipped paintwork around the hull.

To accentuate the rust effect, I used a combination of Burnt Umber and Light Rust Brown, and added this to the previously applied paint chips.

Taking advantage of the oil-based paint, I was able to use white spirit to fade the colours in certain areas without leaving sharp borders.

The tracks received an initial coat made from an equal mix of XF-1 (Flat Black), XF-9 (Hull Red) and X-10 (Gun Metal).

Final Thoughts

Always keen to experiment with new techniques, I was particularly pleased with the results from using oil paints for the rust effects. Initially, I had planned to partially drape the model with a tarpaulin sheet, based on an image I had of a museum example of the vehicle. However, my modelling friends convinced me that it would be a shame to cover the various details, not least the extent of the weathering and surface corrosion. For further details on this and other pieces in my collection, please visit my blog at **www.fabriziopincellimodeller.blogspot.com.**

Availability

Tamiya 1/35 Iraqi Tank T-55 Enigma (ref. 35324) is available from all good model shops.

Now using various Humbrol colours, I applied these to the tracks.

AK Interactive's AK 013 (Rust Streaks) was used from the airbrush directly onto the brush. With the surface still wet, I brushed on a selection of AK's pigments, and blew away any excess. Using this technique resulted in a suitably rough texture.

To give the impression of a vehicle that had remained inactive for some time, I recreated the dried oil and grease stains using a mix of AK and MIG products diluted with white spirit.

AK Interactive's Dust pigment was applied to certain areas using a soft brush.

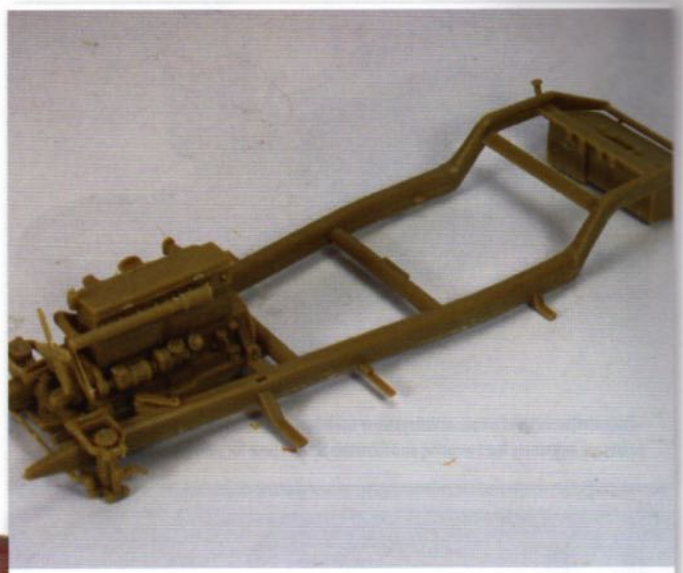
With a small amount of AK-086 (Dark Steel) on the end of my finger, I removed any excess before applying this to panel edges to depict areas of exposed metal.

Großer Mercedes

Federico Collada tackles ICM's Mercedes Benz.

From Germany to Everywhere

The 770 was the largest and most expensive car made by Mercedes-Benz from 1930 to 1943. Used as State vehicles by various governments, they are most-commonly associated with high-ranking Axis officials during World War II. The first model of the car was the W07, with 117 units produced. In 1938 the car was upgraded with a more-powerful engine, new chassis and independent suspension. This model was called W150, and only 88 were produced. At the end of the war, many of these luxury cars were confiscated and acquired by the Allied nations as trophies. Today, examples can be found in various museums and private collections around the world. As for the one used by Hitler, there is some debate as to who actually owns this particular vehicle; most likely it is the vehicle now in the Auto & Technik Museum, Sinsheim in Germany.



The ICM kit contains a fully detailed engine and chassis. Fortunately, the main chassis is a solid piece of injection moulding, allowing a good base for the remainder of the build.

With any open topped vehicle it's important to have a clear idea of how you will combine painting with assembly before you begin sticking pieces together. This includes sometimes painting pieces on the sprue before assembly.

The interior and seats received a wash of Vallejo's excellent acrylic-based Model Wash. The opportunity to work without white spirit will be welcome to many modellers who do not have dedicated modelling spaces.

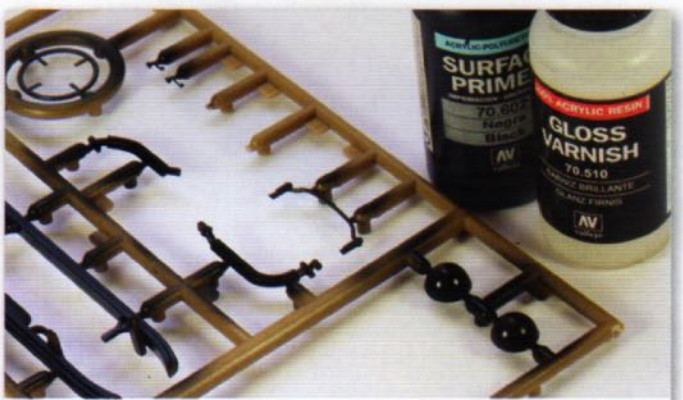
Out of the Box

I bought the ICM kit as soon as it was released, and had a clear idea of how I would depict the vehicle. I have collected several photographs of German cars that were captured by the Allies, as I find these quite interesting in their new Olive Drab paint scheme. Certainly 'pimping the ride' Allied style was a stark contrast to the high gloss black or dark grey of these cars in German service.

Typical of ICM kits, this example comprises a full range of injection-moulded components, including a detailed engine. With no photo-etched or resin parts to deal with, the entire kit can be assembled using standard model glue. In terms of detail, there are many tiny components, which require particular care when removing from the sprue and during the construction. From the outset, I planned to have the bonnet closed, so paid very little attention to the engine. Although generally following the assembly instructions, I thought it wise to paint certain parts (wheels, seats, door interiors, folding roof, window frames and chrome fittings) before attaching these.

The exterior received a coat of Vallejo Olive Drab Surface Primer. These polyurethane-based paints are extremely hard wearing and form the perfect base for subsequent painting effects.

The base colour was shaded and highlighted with the addition of German Dark Yellow. Vallejo's Surface Primer range comes in a variety of shades allowing you to use them like ordinary acrylic paints.



Black Surface Primer mixed with Gloss Varnish provided the smooth surface that was necessary to achieve the chrome effects.

And Vallejo's Metal Medium was the next stage in achieving a high-shine chrome effect.

From Gloss Black to Olive Drab

I used Vallejo paints throughout this project. For me there are the most reliable paints around; I know exactly how they will perform and how to get the sort of finishes I want with them. The car's interior and door panels received an initial coat of Model Air 71.115 (Blue Grey), before being highlighted with 71.114 (US Blue Grey) diluted 70% with the same brand's special solvent for acrylics. After 24-hours drying time, I used 76.518 (Black Wash) to form deep shadows around raised details and in all recesses. I gave the wheels a coat of 70.602 (Surface Primer - Black), followed by 76.513 (Brown Wash) to take away the starkness of the black.

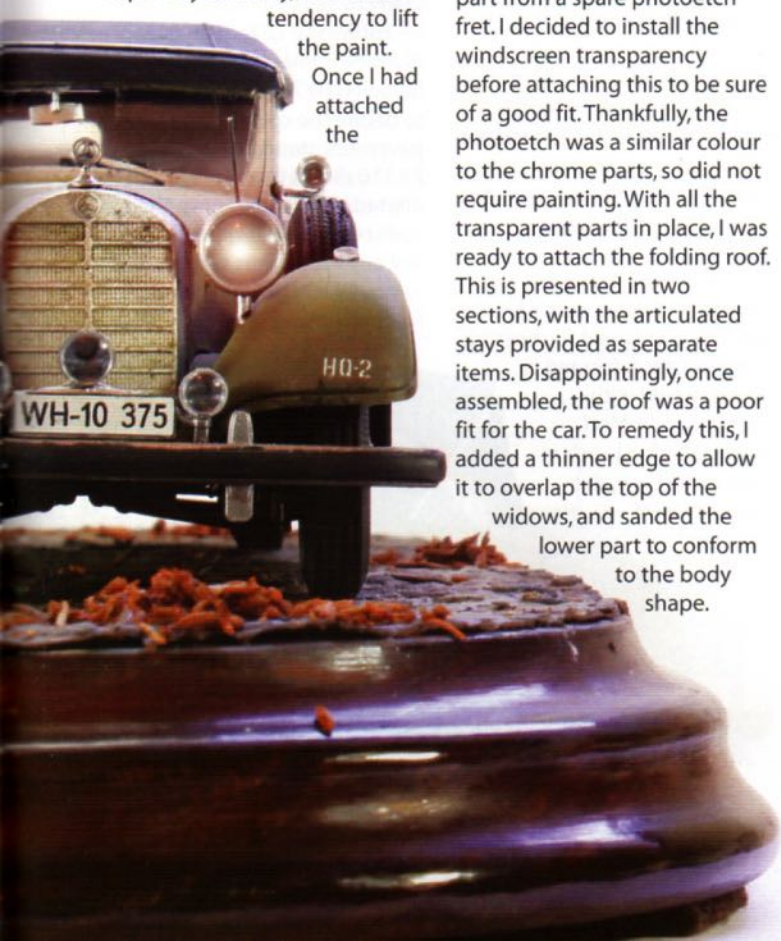
The next stage was to paint the main body of the vehicle, beginning with an overall coat of 70.608 (Surface Primer – U.S. Olive Drab). Having left this to dry for about an hour, I applied 70.604 (Surface Primer – German Dark Yellow) to the centre of the larger surfaces and along horizontal lines of the car. This was repeated a couple of times with increasingly lighter tones. However, it was important to avoid giving the impression of faded paintwork, as I wanted my vehicle to look relatively new. Satisfied with the appearance, I gave the model a coat of gloss varnish, and allowed this to fully cure before adding the decal markings. As the kit was intended to depict a German vehicle, it was a case of searching through my spares box for suitable items. Having made many Allied vehicles, it was not difficult to find correctly sized stars, serial numbers and unit codes. Before applying the decals, I prepared the relevant surfaces with 73.212 (Decal Medium). Once the decals were in place and completely dry, I gave them a coat of 73.213 (Decal Fix) to give the perfect appearance of painted markings.

One of the most difficult finishes to replicate is chrome. Since this would be a notable feature of the model, it was important to achieve a realistic appearance, so I used a method suggested by a

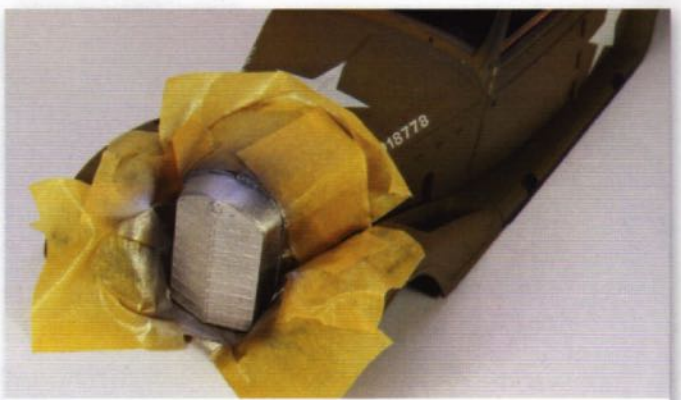
friend some time ago: an initial coat of black, followed by gloss varnish, and finally 70.521 (Metal Medium). This was relatively easy on the separate components, but more difficult with the details moulded on the car's body. Here, I carefully applied masking tape, and used a piece of paper to prevent contact between the tape and any decals. An important thing to remember when masking chromed areas is to remove the tape very carefully, as it has a tendency to lift the paint.

Once I had attached the individual chrome parts, I fixed the wheels and bumpers in place.

The kit provides decals for the various dashboard dials. These were applied, and after a couple of hours I added drops of gloss varnish to replicate the glass faces. With the steering wheel in place, I prepared the various transparent parts including the lights and windows. Unfortunately, the windscreen frame was broken, so I had to make a new upper part from a spare photoetch fret. I decided to install the windscreen transparency before attaching this to be sure of a good fit. Thankfully, the photoetch was a similar colour to the chrome parts, so did not require painting. With all the transparent parts in place, I was ready to attach the folding roof. This is presented in two sections, with the articulated stays provided as separate items. Disappointingly, once assembled, the roof was a poor fit for the car. To remedy this, I added a thinner edge to allow it to overlap the top of the widows, and sanded the lower part to conform to the body shape.



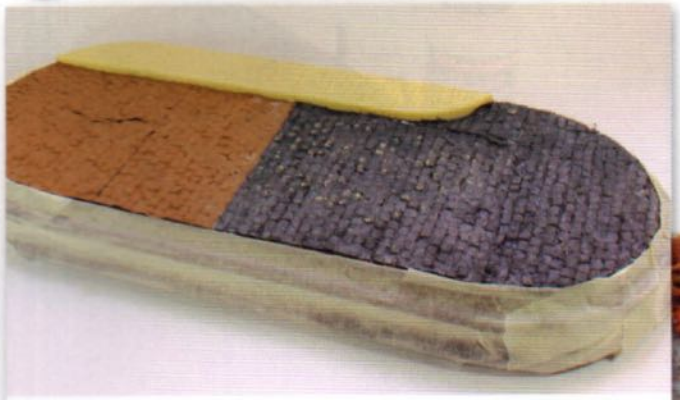
A coat of gloss varnish prepared the model for the decals which were fixed in place with Decal Medium.



Some careful masking was needed to spray the radiator grill. Softskins often require a lot more preparation and thought in painting than AFVs.

Similarly the chrome trim needed masking. At this stage the car really looks as if it's in the local bodyshop for a respray!

The assembled and painted model: now time for the weathering.



The base was a nice piece of polished wood to which I applied a piece of resin pavement and some cobblestones moulded from Vallejo's acrylic mud.

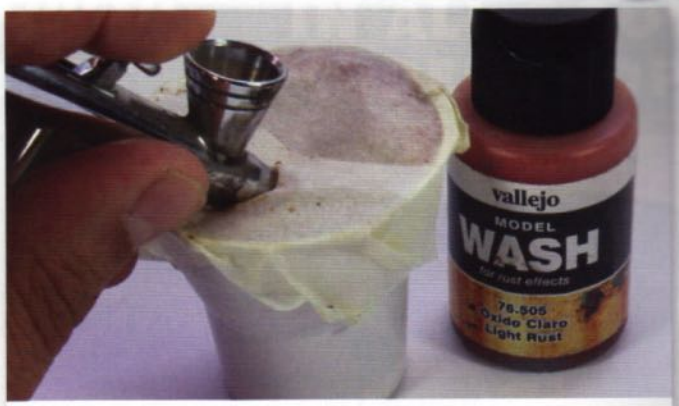
The groundwork was primed Black before I sprayed some Model Air Blue Grey over it. I was careful to allow some of the Black undercoat to show through creating some natural shadows.

I then gave the base a wash of Burnt Umber pigments mixed with water. These dried to a pleasingly matt and random finish.

I then gave the base a wash of Burnt Umber pigments mixed with water. These dried to a pleasingly matt and random finish.

Setting the Scene

Rather than resorting to the usual wartime setting, I wanted to depict a more-peaceful scene that would convey the idea that hostilities had ended. Initially, I had planned to include a couple of figures (an army photographer taking a shot of a nice-looking lady near the car). Unable to source suitable items, and not sure that my figure conversion skills were up to the job, I decided to shelve the idea. By chance, I already had a polished wooden base that was the correct size, so I added a section of resin pavement that was shaped to match the edge of the base. Finding nothing suitable for the cobblestone road, I opted to make my own using one of the moulds I had recently purchased. Rather than using plaster, I decided to fill the mould with Vallejo Acrylic Mud. Applied with a brush in a very thin layer, this was left for 24 hours to fully cure. Once removed, the sheet was perfectly formed and sufficiently flexible to conform to the surface of the base. Having made enough to cover the required area, I attached them with PVA white glue, and masked the wooden surround ready to start painting. I began by applying a coat of 70.602 (Surface Primer – Black), followed by 71.114 (Blue Grey) to define the cobbles and pavement stones. Now using 73.110 (Burnt Umber Pigment) diluted with water, I gave the surface an overall wash. Once dry, any excess was simply removed with a large brush. Further washes of 76.524 (Blue



To paint the tiny cumin seeds that would represent fallen leaves, I sprayed rust-coloured paint through my airbrush into a small cup, taped over with masking tape, containing the seeds.

A close-up of the finished model: this was not a combat vehicle so weathering was kept to a minimum.

A close-up of the finished model: this was not a combat vehicle so weathering was kept to a minimum.

The Vallejo pigments and paints give a pleasing wet sheen to the cobblestones, ideal for this autumnal scene.

Grey) and 76.522 (Desert Dust) were added to modify the tone of the various cobbles, and the area finished off with 76.514 (Dark Brown) to accentuate the shadows.

For the fallen leaves I used cumin seeds, which can be found in most supermarkets. To give these a suitable autumn colour, I placed the seeds in a disposable cup, and covered the top with masking tape. Having made a small hole, I inserted the tip of my airbrush and sprayed 76.505 (Light Rust) into the cup. Conveniently, the pressure from the airbrush moved the seeds around allowing them to be fully painted. All that remained was to scatter the leaves over a layer of diluted white glue, and attach the car to the base. There we are … an unusual take on a well-known vehicle. The ICM kit was a pleasure to build and it's good to see the quality of kits coming from theses Eastern European manufacturers. I would certainly have no hesitation in recommending them to modellers looking for a change of pace or a slightly unusual subject.

Availability

ICM 1/35 Typ 770K (W150) Tourenwagen (ref. 35533) is available from good model shops.

1/35 Dragon Models Limited Tiger I Late Production w/Zimmerit

Tiger I ...the

Of all the tanks that have been produced, the Tiger I has to be the most popular and widely referenced subject. While there is some debate as to whether this was the most-effective tank of its time, it certainly influenced the design of many tanks that followed. Originating in a pre-war German tank project (VK-Series Trial/Test Chassis), the Tiger was developed in 1942 in response to the unexpectedly impressive Soviet armour (notably the T-34 and KV-1) encountered during the early stages of Operation Barbarossa.

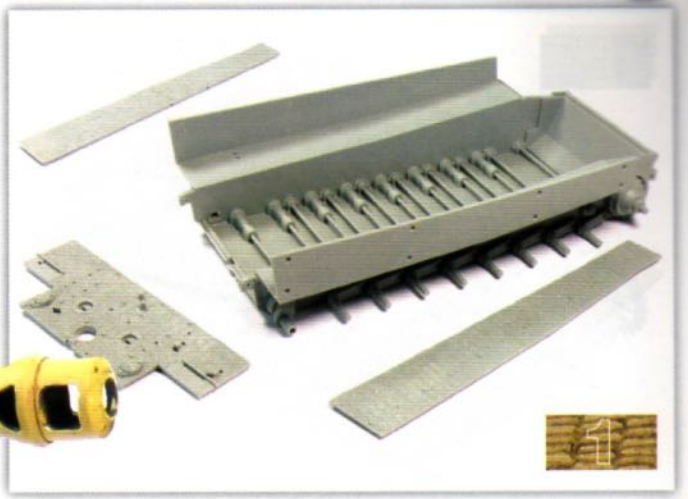
Earlier tank design had been based on a balance of mobility, firepower and armour protection; with this new vehicle, the emphasis was clearly on firepower and armour. The first tank to be armed with the 88mm KwK 36 L/56 gun, the thickness of its armour reached a maximum of 120mm. These factors alone made this a potent weapon, one that was feared by most of its opponents. However, the vehicle was over-engineered, using expensive materials and labour-intensive production methods. It was prone to track failure, and its range limited by high fuel consumption. Due to its weight (almost 57 tonnes), transportation was difficult. It was also vulnerable to immobilisation when ice and snow froze between the interleaved wheels in winter weather conditions. Despite these shortcomings, the Tiger served on all fronts, usually deployed in independent tank battalions. Initially, the official designation was Panzerkampfwagen VI Ausführung H (abbreviated to PzKpfw VI Ausf.H), with the ordnance inventory number SdKfz 182. It was re-designated PzKpfw VI Ausf.E in 1943, with the inventory number SdKfz 181. Interestingly, the tank was given the name 'Tiger' by Ferdinand Porsche, and the Roman numeral 'I' only added after the later Tiger II entered production.

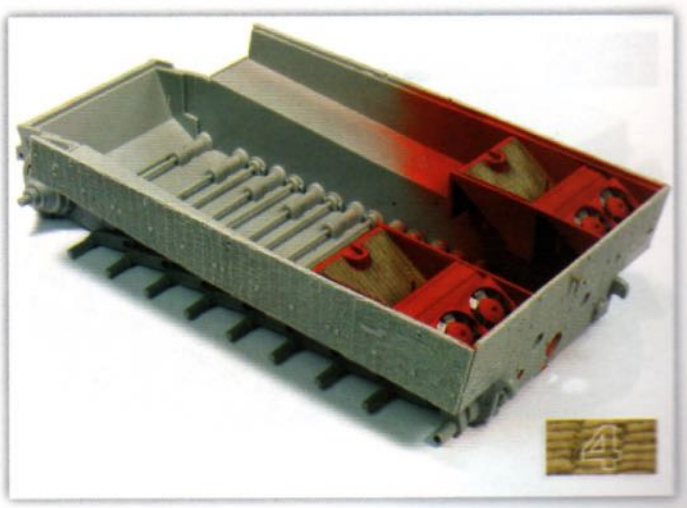
The Tiger in Miniature

While the Tiger was a formidable weapon, only 1,347 were actually produced (compared with over 84,000 T-34s and about 49,000 Shermans). Presumably, it is the tank's iconic standing that has made it the most widely produced kit in all scales. Many companies offer all the major versions (initial, early, mid and late-production models), as well as variants based on the Tiger chassis (including the Sturmtiger and the Berge Tiger demolition carrier vehicle). I chose to build the late-production vehicle, with steel roadwheels, and Zimmerit coating the hull and turret surfaces (as well as a host of other minor production changes).

Having decided on the particular version, the next consideration was the choice of manufacturer. In fact, I opted for the Dragon kit (ref. 6383), not least because it offers the luxury of moulded-on Zimmerit. Although the kit is sufficiently detailed to produce a decent out-of-the-box model,

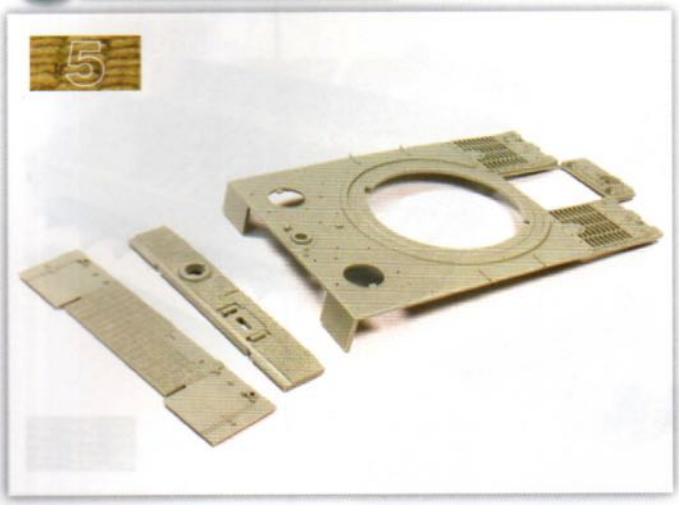
Legend

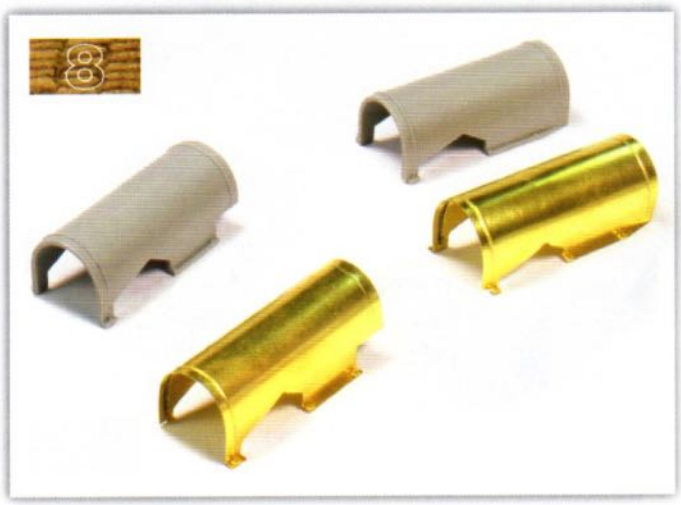




I chose to carry out some refinements using VoyagerModel's photo-etched detail set (ref. PE35179). I also replaced the tracks with FriulModel's fully workable set (ref. ATL-06), and the gun barrel with a turned-metal version from RB Model (ref. 35B71). Further minor additions would be added during the construction.

Assembly began with the lower hull and torsion bar suspension. The way these have been engineered allows all roadwheels to be fully articulated. The Zimmerit coating for the hull sides is provided as separate mouldings which are simply attached to the respective panels. Generally, this approach results in over-scale thickness; here, the parts are thin enough to compensate for this. As for the front and rear sections, these have the Zimmerit already moulded on **(photo 1)**. To ensure that the side panels were firmly in place, I supported them with mini-clamps while the glue was setting **(photo 2)**. As I intended to use extra detailing sets, it was necessary to make certain preparations beforehand. The cooling fans and fuel tanks needed to be assembled at this stage **(photo 3)**. Before attaching the upper hull, I gave the rear interior a coat of red primer, and painted the various details (including the protective wooden panels above the fuel tanks). Of course, this is only necessary if you intend to have the air-intake grilles openable **(photo 4)**.



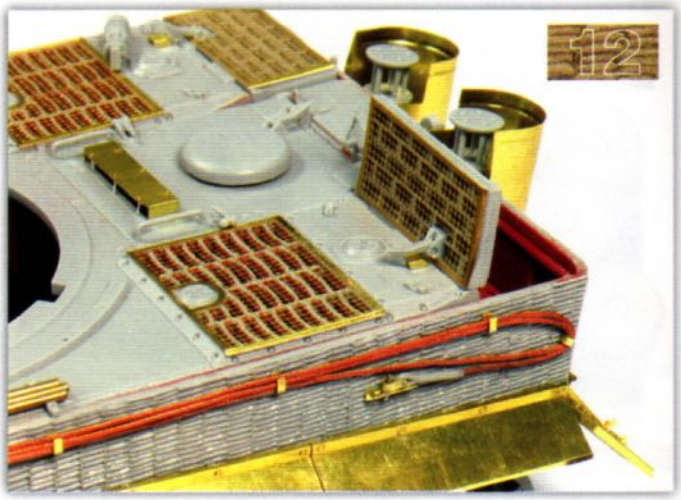


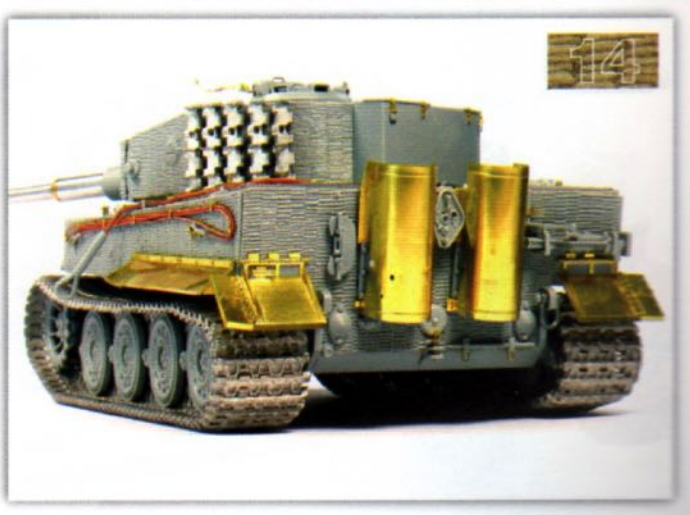
The upper hull and frontal plate are also provided as multiple parts **(photo 5)**. Since I planned to use the photoetched mudguards, I carefully removed the plastic versions. With the wheels assembled and the basic hull completed **(photo 6)**, it was time to make a start on the turret. I filled the outer of the two holes on the gunner's side of the mantlet, as the late-production Tiger only had one of these. The replacement barrel needed some minor surgery so that it could move horizontally like the one provided in the kit **(photo 7)**. I also used RB Model's 'MG34 - tank version' (ref. 35B38) for the coaxial machine gun.

Returning to the hull, I began by shaping the photoetched exhaust guards, using a metal rod and the kit-provided parts **(photo 8)**. The mudguards were also bent to the correct shape, and were made movable by inserting lengths of acupuncture needles into the hinges. Once assembled, the mudguards and the air-intake grilles were attached with CA glue **(photo 9)**. To provide some visual interest, I decided to omit the front left-hand mudguard. There is a small area at the front without Zimmerit. As this would be clearly visible, it was important to include the photo-etched parts **(photo 10)**. The next task was to add the various stowed tools. Bending the photoetched clamps was certainly a laborious and fiddly operation, but well worth the effort **(photo 11)**.

Whereas the kit provides the sideskirts as single mouldings, the photo-

etched replacements are presented as individual sections. As well as looking more realistic, this allows each one to be bent and damaged if required. Having fixed these in place, I also attached lengths of Eureka XXL's 0.6mm copper cable for the side-mounted track cables. Note that the air-intake grilles were assembled to be movable (hence the earlier painting of the interior) **(photo 12)**. Final additions included a headlamp power cable, made from copper wire to accommodate for the replacement lamp-bracket; and a single towing cable, again from Eureka XXL (this time 0.9mm). Choosing to use the Friul tracks meant that I would need to replace the kit's turret-mounted spare links to match. Again using photoetched items, the turret-bin clasps and the commander's machine-gun mount were also added at this point **(photo 13)**. All that remained was to assemble and test-fit the tracks before moving on to the painting **(photo 14)**





Painting & Weathering

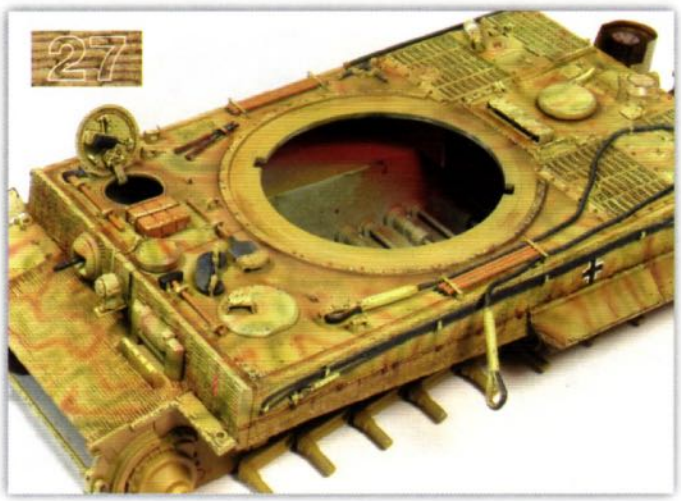
The first step was to apply a primer coat using Revell 47 (Mouse Grey). Not only would this show up any defects, it would help to unify the various materials used in the construction, and provide a suitable key for the base colour **(photo 15)**. While there are certain distinctive features when considering the colours of specific Tiger variants, I settled for a simple scheme, beginning with an overall Tamiya XF-60 (Dark Yellow) diluted with Mr.Color Thinner. Individual sections were now highlighted by adding a small amount of XF-55 (Deck Tan) to the base colour. The process was repeated, this time with XF-2 (White) added to the mix. In each application, the paint was further diluted **(photo 16)**. A similar sequence was used on the roadwheels **(photo 17)**.

To replicate the wavy-line camouflage scheme, I began with XF-58 (Olive Green) to which I added some of the XF-60. This was followed by XF-64 (Red Brown) to complete the pattern. In both cases, the colours were heavily diluted, and airbrushed at close range using a fine-tipped nozzle **(photo 18)**.

Details were now picked out using fine-pointed brushes and a selection of Vallejo Panzer Aces colours. I also applied the various decal markings at this stage **(photo 19)**. I found the combination of Panzer Aces 301, 302 and 303 to be particularly useful when creating the

impression of heavy corrosion on the exhaust pipes. Again heavily diluted, the colours were applied in successive layers, and allowed to blend to produce a realistic appearance **(photo 20).** Since the roadwheels on this particular version were without tyres, it was important to show the exposed metal on the rims. Rather than using paint for this, the simplest and most effective method was to apply graphite from the tip of a 4B pencil. Once lightly burnished, the result was a perfect representation of polished steel **(photo 21).**

The next step was to give the entire model a coat of Vallejo's Satin Varnish. As well as protecting the underlying paintwork, this would provide a suitable surface for the weathering applications. Once this was completely dry, I used a selection of oil colours to apply the 'dot filter' technique. Specific colours were chosen depending on whether the area needed to be lightened or darkened. These were then blended with a brush moistened in white spirit (alternatively, Schmincke Medium N or a similar enamel-based thinner could be used) **(photo 22).** The important thing is to avoid having the brush too wet; any excess thinner should be removed before attempting to blend the colours, otherwise they will simply be removed from the surface. Turning to MIG Productions', I now applied a series of localised washes to accentuate raised details around the model. The specific colours were P220, P221 and P222 (Dark Wash, Brown Wash and Neutral Wash) **(photo 23).** These were applied with a fine-tipped brush, and any excess removed with a clean brush moistened in MIG Thinners **(photo 24).**



Moving on to the chipped paintwork effect, this was approached in two stages: Firstly, a lighter version of the base colour was used to replicate scratches and stains; the inner portions of some of these now received a darker colour to give the impression of exposed and corroded metal. To achieve a realistic appearance, this requires patience and practice. Once again, Vallejo colours are ideally suited to this kind of work **(photo 25)**. This application requires a lot of time and patience. Having dealt with the hull, the same procedure was applied to the turret. Of course, minor damage to areas covered in Zimmerit paste would not reveal exposed metal. Instead the result would be a slight variation lighter of the surface colour. Above all, any damage should be in-scale, and focused on areas that would be logically affected **(photo 26)**.

Concentrating on parts of the vehicle that would show most signs of dirt, I began by airbrushing a mix of Tamiya Earth and Buff colours **(photo 27)**. I followed this with two light coats of Vallejo Matt Varnish, which would provide a perfect surface for the subsequent application of pigments **(photo 28)**. Starting with the lower hull, I applied pigments to create a heavy accumulation of road dirt and mud. Although the large wheels would obscure much of this area, I left these unattached and continued to apply the pigments to the chassis and around the suspension arms. Using dark earth and mud-coloured pigments, these were mixed with thinners, before being stippled onto the surface with a wide brush. Lighter pigments were now sprinkled onto the still-wet surface **(photo 29)**. A different method was used for the wheels. Having sprinkled dry pigments, I then used a drinking straw as a pipette to apply small drops of Pigment Fixer, and allowed this to spread naturally. This requires some practice, but can result in a very realistic appearance. Once completely dry, the wheels were attached **(photo 30)**. With the Friul tracks assembled, these were given an initial coat of black mixed with brown. With the same pigments that I had used on the vehicle, I

most eye-catching weathering effects were the various streaks and stains around the vehicle. Using a selection of Vallejo's washes, I applied these with a fine-tipped brush, and added a small amount of Gloss Varnish to suggest oil stains. I also applied pigments to recreate the carbon residue (commonly referred to as 'sooting') around the exhaust pipes **(photo 32)**.

To add some life to the model, I decided to include a pair of crew figures. The ideal choice was Alpine Miniatures' 'WSS Panzer Commander Set' (ref. 35141). Expertly painted by my friend, Atilla Güc, these certainly put the finishing touch to the completed model **(photos 33 & 34)**.

Conclusion

There is no doubt that the Tiger was a legendary tank, and one that has continued to be highly popular among military modellers. With the vast amount of reference material available, any kit of the Tiger can be checked for accuracy down to the smallest of details. Of course, the latest hi-tech kits are particularly good, despite being fairly expensive. While the Dragon kit doesn't fall into that category, I was pleased with the outcome, and recommend this (with or without Aftermarket detail sets) to anyone with an interest in the Tiger. I certainly plan to tackle further versions before long.

Availability

Dragon Models Limited 1/35 Tiger I Late Production w/Zimmerit (ref. 6383) is available from all good model shops. Many thanks to Emre Efli for the translation of this article.

Words & Pictures

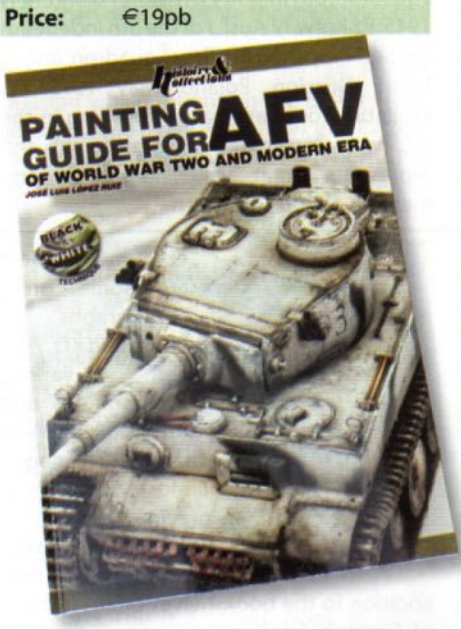
A round up of the latest military titles

Title:	KV Tanks on the Battlefield (World War Two Photobook Series Volume 5)
Author:	Neil Stokes
Publisher:	Peko Publishing
ISBN:	978-9-63896-234-8
Price:	£23.99hb

The format of this series from the Hungarian publisher is now firmly established and it's a winning combination: dual-language Hungarian and English text and large, one-page format photographs. Having previously covered the StuG III and Panzer IV, this volume turns to tanks of the Red Army and the KV series (KV-1, KV-2, KV-6 flamethrower, KV-8, and KV-85). Its 128 pages contain 120 images, many from private collections and most previously unseen. The captions and text are written by the hugely knowledgeable Neil Stokes and are informative and helpful. Most of the photos show KV tanks in the aftermath of battle, knocked out by German forces, abandoned, or otherwise fallen victim to the chaos of war. A couple of images show just how unwieldy these behemoths were: collapsed bridges (a situation for which neither the Germans or the Soviets had any means of recovering the unfortunate KV tank) and tests by the German forces on captured vehicles to determine just what bridges they could cross. The range of different KV tanks is impressive: the KV-2, both Model 1940 and Model 1941, are particularly well covered, as are more unusual variants such as the KV-6 flamethrower and KV-1 ehkrany (spaced armour). What is particularly striking is the extensive use that the Germans made of captured KV tanks. Some were merely daubed with oversized German markings and turned against their former owners, while others were more thoroughly reworked with new cupolas and other fittings. Overall, this is a really excellent collection of photos. The reproduction is of the highest quality and the captions informative. Very highly recommended. It's available in the UK from the Panzerwrecks team (www.panzerwrecks.com), who kindly supplied the review copy.

David Grummitt

Title:	Painting Guide for AFV of World War Two and Modern Era
Author:	José Luis Lopez Ruiz
Publisher:	Histoire & Collections
ISBN:	978-2-35250-387-3
Price:	€19pb



I first met José Luis Lopez Ruiz on one of the Internet modelling forums in 2010 and he immediately impressed me with his unique style and approach to modelling. Beginning as a solid representative of the Spanish Modelling School, he pushed the borders of our understanding of model painting and developed his own unique style and method: the so-called 'Black and White technique' where basically all effects including chipping, mud and dirt are created on the model prior to application of the basecoat using various shades of grey. Frequent MMI readers should be familiar with that approach as he presented it in the pages of magazine in 2013 (see MMI November 2013 – ed.) and this book is a great way to increase your understanding of this simple but effective technique. Unlike other books where we see only a collection of previously published models gathered into one place, José Luis made five exclusive models for this book to use the 'Black and White technique' and explains all aspects and nuances of that concept. But not only that, this publication is a comprehensive guide that includes advice on materials that should be used for painting, including colour charts and explanations of which tone is best for a particular effect and lots of other useful information. All together there are eighty pages of valuable information filled with high quality images followed by excellent writing. The only limitation that I see is that some of the images are a bit small, but given the amount of information contained within its page it doesn't detract from the quality and utility of the book. A limited edition accompanied by DVD will be also available in the near future.

Roman Volchenkov

Words & Pictures

A round up of the latest military titles

Title:	Barbarossa 1941: German Infantryman vs. Soviet Rifleman (Combat 7)
Author:	David Campbell
Publisher:	Osprey Publishing
ISBN:	978-1-47280-324-5
Price:	£11.99pb

The Axis invasion of the Soviet Union on 22 June 1941 pitted Nazi Germany and her allies against Stalin's forces in a mighty struggle for survival. Fighting alongside the spearhead Panzer divisions were Germany's highly skilled and veteran motorized infantrymen – including the German Army's premier unit, Infanterie-Regiment (mot.) Großdeutschland. Opposing these German mobile forces, the Soviets deployed the often ill-trained and poorly equipped men of the rifle regiments, who fought tenaciously and with the threat of savage reprisals from their own side. In this book three bruising clashes during the first seven weeks of the campaign are assessed: a bloody encounter battle at Zhlobin, the struggle for the destroyed city of Smolensk and then a prolonged clash along a dangerously stretched German defensive perimeter at Vas'kovo–Voroshilovo. Its eighty pages follow the usual Osprey format and the usual caveats apply: some of the photos are reproduced frustratingly small but this is more than made up for by the brilliant and evocative original artwork. The painting of the clash at Vas'Kovo, from the viewpoint of the German trenches and the charging Red Army infantrymen, really captures the drama of these early battles on the Eastern Front. The text, as ever, is informative and well written and a full bibliography gives a good survey of the some of the latest literature, both academic and popular, on the subject. This is the first volume I have examined in Osprey's Combat series and I was impressed. Recommended. It's available from good bookshops and online at www.ospreypublishing.com. **David Grummitt**

Title:	Captured Panzers: German Vehicles in Allied Service (Top Colors 39)
Author:	Arkadiusz Wróbel & Marek Jaszczolt
Publisher:	Kagero
ISBN:	978-8-36287-889-5
Price:	£12.99pb

Kagero's Top Colors series follows a simple but effective format: colour profiles of armour accompanied by decals in 1/35, 1/48 and 1/72 scales. This volume covers German AFVs in Allied service during World War II from the North African campaign through to the end of the war in Europe. It covers vehicles in British, American, French and Soviet service. The following vehicles are included, featuring some well-known favourites and some new and interesting options: Pz.Kpfw. II Ausf. F of the 1st Ranger Battalion, Tunisia, spring 1943; Sd.Kfz. 222 of No. 2 ACC, North Africa, 1943; Jagdpanzer 38(t) "Chwat", Warsaw, Poland, August 1944; Pz.Kpfw. V Panther Ausf. A of 1er bataillon AS de l'Ain, Méximieux, France, September 1944; 15cm Panzerwerfer 42 auf Selbstfahrlafette Sd.Kfz. 4/1 of 1er G.M.R., Saint-Nazaire area, France, October 1944; Pz.Kpfw. V Panther Ausf. G of the 145th Regiment RAC, Italy, 1944/1945; Pz.Kpfw. V Panther Ausf. G of the 4th Battalion Coldstream Guards, the Netherlands, winter 1944/1945; Pz.Kpfw. IV Ausf. H/J of l'Escadron Autonome de Chars Besnier, Saint-Nazaire area, France, February-March 1945; Sd.Kfz. 251/8 Ausf. D of an unidentified U.S. Army unit, Germany, 1945; Pz.Kpfw. V Panther Ausf. G of the 366th Self-Propelled Artillery Regiment, Hungary, March 1945; Panzerbefehlswagen Panther Ausf. G of l'Escadron Autonome de Chars Besnier, Saint-Nazaire area, France, March-May 1945; Sd.Kfz. 251/7 Ausf. D of the 153rd Field Regiment RA, Guards Armoured Division, Germany, 1945; Sd.Kfz. 251/1 Ausf. D "Řevnice 5", Prague area, Czech Territory, May 1945; Sd.Kfz. 250 Ausf. A, Prague, Czech Territory, May 1945; Sturmgeschütz III Ausf. G of the 5th Independent Self-Propelled Artillery Squadron, 6th Infantry Division, Poland, May 1945; Pz.Kpfw. IV Ausf. J of the 5th Independent Self-Propelled Artillery Squadron, 6th Infantry Division, Poland, May 1945. It's available from Casemate Publishing in the UK (www.casematepublishing.co.uk) and represents great value; highly recommended. **David Grummitt**

Title:	La Flak de la Leibstandarte: 1. SS-Panzer Division Leibstandarte Adolf Hitler
Author:	Pierre Tiquet
Publisher:	Heimdal
ISBN:	978-2-84048-378-6
Price:	£22.00hb

This volume is a superb history of the Flak battalion of the Leibstandarte from its formation and training in the summer of 1940 to its first combat deployment in the Balkans, through Operation Barbarossa, Kharkov, Kursk, Normandy, the Ardennes and its final battles in Hungary and Austria. The text is French, but the main attraction for modellers will probably be the images: a superb collection of shots of individual soldiers, vehicles and equipment. There are some great photographs of 88mms, Sd.Kfz. 7s in their various configurations and other vehicles. More than 250 images, almost all of them previously unpublished, make this book an essential addition to the bookshelves of all students of German armour and military units of World War II. Very highly recommended, it's available in the UK from Casemate Publishing www.casematepublishing.co.uk).

David Grummitt

Words & Pictures

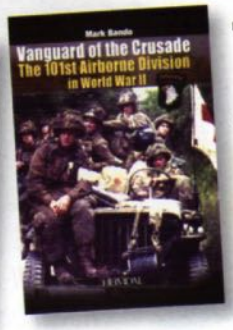
A round up of the latest military titles

Title:	J'ai Survécu dans mon Panzer: 12.Schwadron Panzer-Regiment 24 24.Panzer-Division
Author:	Armin Böttger
Publisher:	Heimdal
ISBN:	978-2-84048-336-6
Price:	£25.00hb

This book is exceptional in more ways than one. These are the memories of a radio operator of the 12. Schwadron of Panzer Regiment 24 of the 24 Panzer Division which fought on the Easter Front, across Europe (France and Italy), into Eastern Prussia, and survived with serious burns. It is also exceptional thanks to pictures taken by the author, with 64 colour photographs. They are exceptional because the author had an interest in the uniforms he and his comrades wore and the vehicles they fought and lived in. The text is French, but if you are an Anglophone don't let that put you off. The book's 200 pages cover in great detail the personal experience of war and, as well as the colour images, are complemented by a further 296 black-and-white images. They show Panzer IVs and a host of other support vehicles in interesting and unusual configurations, and Böttger's eye for detail will provide endless inspiration for modellers. This is a superb book, so get it while you can as it's sure not to hang around for long! Very highly recommended, it's available in the UK from Casemate Publishing www.casematepublishing.co.uk).

David Grummitt

Title:	Vanguard of the Crusade: US 101st Airborne Division in World War II
Author:	Mark Bando
Publisher:	Heimdal
ISBN:	978-2-84048-330-4
Price:	£40.00hb



The 101st Airborne Division, known as the 'Screaming Eagles', is a U.S. Army modular light infantry division trained for air assault operations. During World War II, it was renowned for its role in during the Normandy landings, during Operation Market Garden, the liberation of the Netherlands and action during the Battle of the Bulge around the city of Bastogne, Belgium. The Pathfinders of the 101st Airborne Division led the way on D-Day in the night drop prior to the invasion. They left from RAF North Witham having trained there with the 82nd Airborne Division. The 101st Airborne Division's objectives were to secure the four causeway exits behind Utah Beach, destroy a German coastal artillery battery at Saint-Martin-de-Varreville, capture buildings nearby at Mésières believed used as barracks and a command post for the artillery battery, capture the Douve River lock at la Barquette (opposite Carentan), capture two footbridges spanning the Douve at la Porte opposite Brévands, destroy the highway bridges over the Douve at Sainte-Come-du-Mont, and secure the Douve River valley. In the process units also disrupted German communications, established roadblocks to hamper the movement of German reinforcements, established a defensive line between the beachhead and Vologne, cleared the area of the drop zones to the unit boundary at Les Forges, and linked up with the 82nd Airborne Division. Mark Bando has dedicated this work to this famous American airborne division engaged in the Normandy and Ardennes battles. He relays in dramatic detail the histories recounted by hundreds of veterans. The book's 312 pages are copiously illustrated, while the text is well written and its numerous first-hand accounts really impart the dramatic history of this elite unit. Highly recommended, it's available in the UK from Casemate Publishing www.casematepublishing.co.uk).

David Grummitt

Title:	Mittlere Geländegängige Lastkraftwagen (O): the Medium Cross-Country Lorries 3 ton (6x4) of the Reichswehr and Wehrmacht
Author:	Holger Edrmann
Publisher:	Nuts & Bolts
ISBN:	978-2-84048-330-4
Price:	£25.00pb

This is the 32nd volume in the comprehensive Nuts & Bolts series on vehicles of the German Reichswehr and Wehrmacht and the first to concentrate exclusively on wheeled lorries. It covers the Büssing-NAG III GL6 and KD, the Henschel Typ 33, the Krupp L3 H63/163 and the Mercedes-Benz LG 3000. For modellers thinking of tackling ICM and IBG's's growing range of World War II German softskins. This 225-page volume takes the usual format of a comprehensive technical and developmental history, followed by 88-page photo section (drawn from technical manuals, official images and privately taken photographs). There then comes the scale drawings in 1/35, followed by a series of beautifully drawn colour profiles (as ever linked to the archival images). The walkaround section is a little truncated, as no surviving examples of the Büssing-NAG trucks are extant, while only one partially rebuilt Krupp chassis survives in Russia. Happily there are several Henschel and Mercedes Benz trucks surviving and these are covered in extensive detail from museums in Germany, Spain, the Netherlands, the UK and Latvia. Finally we have some nice 1/35-scale models built by Tony Greenland, Vinnie Brannigan and Heiner Duske. This is a super volume, highly recommended. It's available in the UK from Historex Agents (www.historex-agents.com).

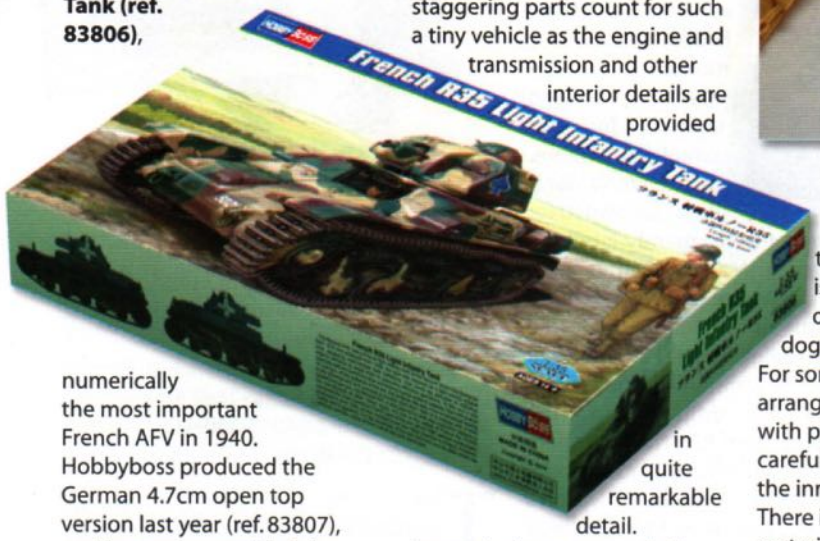
David Grummitt

The Final Post

Ian Duthie is impressed by two small World War II tanks from Hobbyboss.

Hobby Simplicity

There has been a resurgence of interest in World War II French armour lately, with numerous kits appearing from a variety of manufacturers. Hobbyboss have joined the party with their **French R35 Light Infantry Tank (ref. 83806)**, and two small sprues of link-and-length track. There is also a very nice small turned metal 37mm barrel, a small decal sheet and a generous fret of photoetch. I really like the etched Renault logo badge for the front. There is a pretty staggering parts count for such a tiny vehicle as the engine and transmission and other interior details are provided in quite remarkable detail.

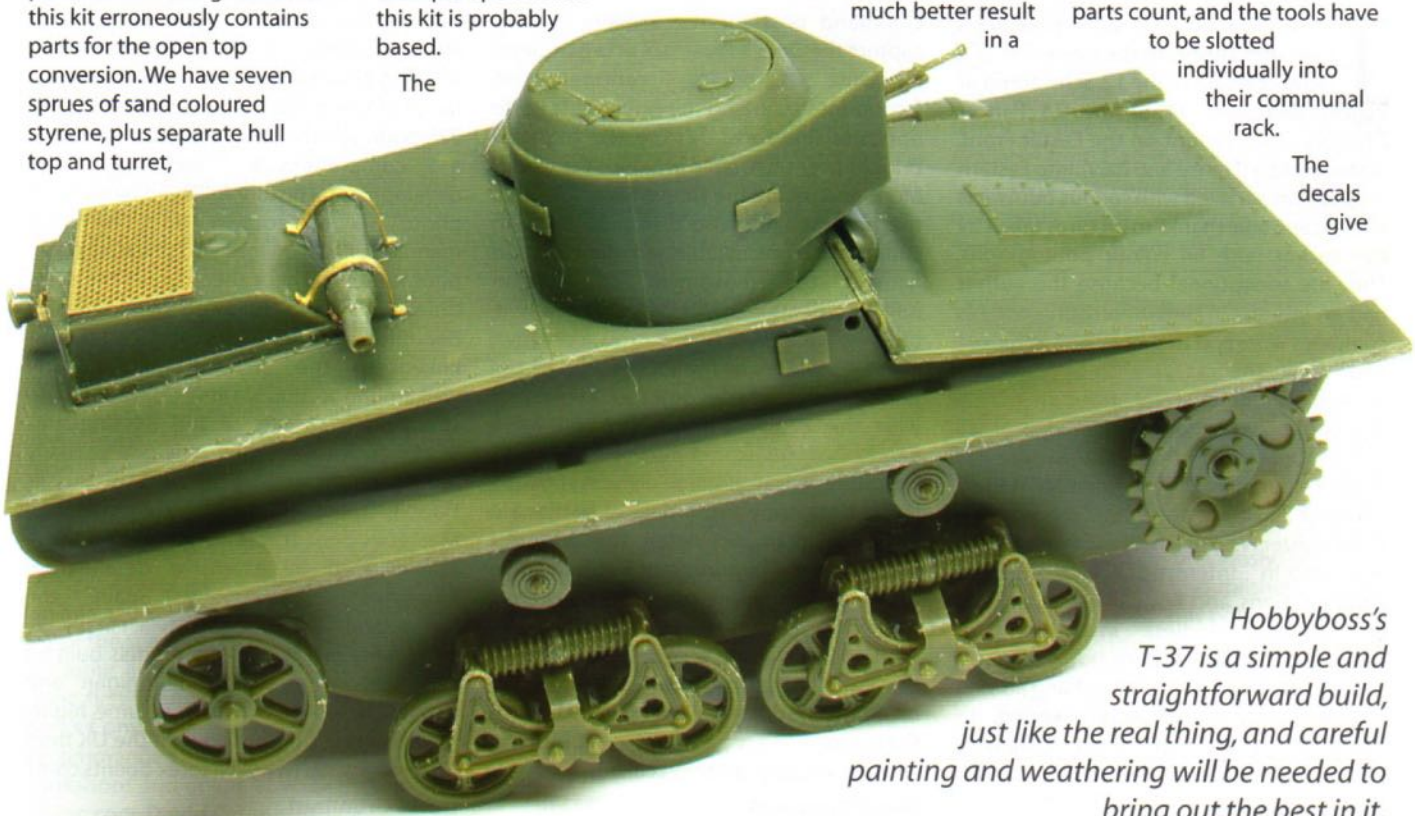


Some well-chosen photoetch and a nice turned metal barrel all add to the appeal of the R35.

numerically the most important French AFV in 1940. Hobbyboss produced the German 4.7cm open top version last year (ref. 83807), and have now provided the standard gun tank. Indeed, there is a correction slip for the parts list as the original list for this kit erroneously contains parts for the open top conversion. We have seven sprues of sand coloured styrene, plus separate hull top and turret, Strangely there are no shell storage racks, maybe because they are missing on the Saumur example upon which this kit is probably based.

The trickiest part of assembly is the suspension (the over-complex design dogged the real vehicle also!) For some reason the wheel arrangements are supplied with photoetch panels to carefully bend and fit between the inner and outer housings. There is no leeway with this material and having struggled with the lower infills, I simply used plastic card for the upper parts and this gave a much better result in a fraction of the time. The light green link and length track demonstrates a good snap fit and was far easier than the same company's recent Toldi single links, which were virtually unbuildable. Be careful to ensure the return rollers are aligned properly. Mine weren't and I had to cut them off then reattach them using thick white rod. All hatches are separate and comprehensively detailed inside and out, adding to the parts count, and the tools have to be slotted individually into their communal rack.

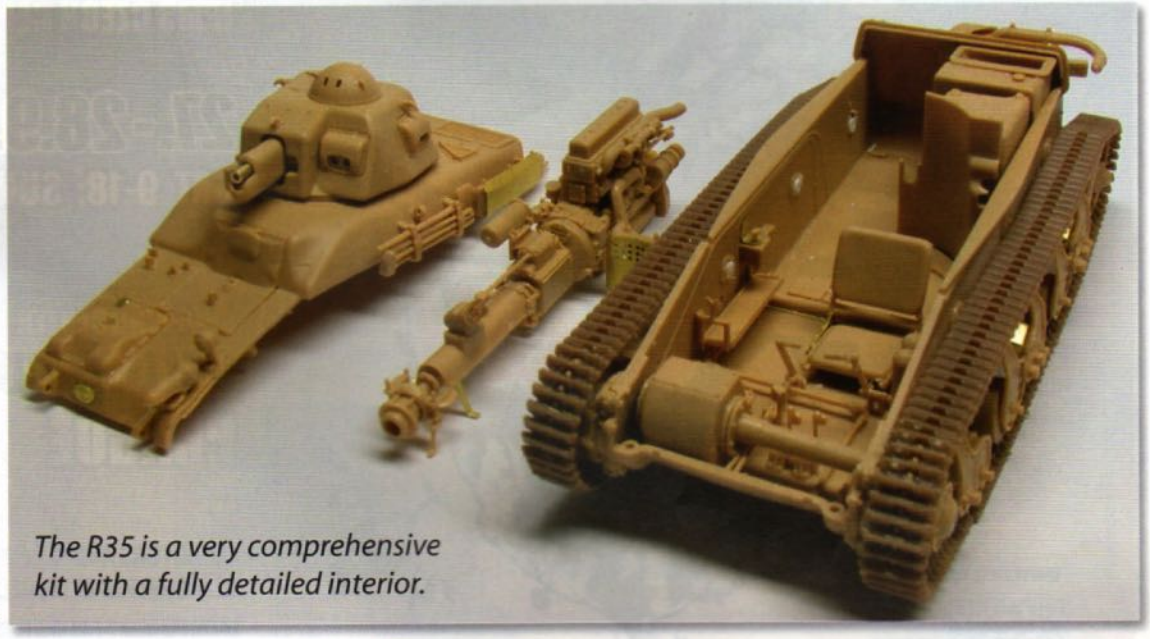
The decals give



Hobbyboss's T-37 is a simple and straightforward build, just like the real thing, and careful painting and weathering will be needed to bring out the best in it.

The Final Post

Ian Duthie is impressed by two small World War II tanks from Hobbyboss.



The R35 is a very comprehensive kit with a fully detailed interior.

only one French version (strangely not the example on the box art) in a subdued green/red brown camouflage, and a second option in Panzer Grey with white crosses. This is a little disappointing given the variety of fairly florid schemes that these vehicles sported and I am currently looking to see if there are more alternative markings that can be sourced (check out the mad scheme in Steve Zaloga's new Osprey book, French Tanks of World War 2 (New Vanguard 209).) Overall this is a sharp and comprehensive treatment of the R35, much better than the old Heller kit. It is not for the impatient, but omitting the unseen parts of the interior and ditching the photoetch components on the wheel housings will save plenty of time. Highly recommended.

Our second Hobbyboss build this month is **T-37 Light Tank Amphibious Early (ref. 83818)**,

the fourth version of this diminutive tank the company have released so far. The Soviet Union was unique during the 1930s in considering amphibious tanks to be an integral part of its armed forces. The T-37, based on the British Vickers tankette, was the first mass-produced fully amphibious tank in the world, serving in Finland, the Polish campaign, and during the Great Patriotic War. This kit, like the real vehicle, is a small and relatively simple affair. We have a one-piece hull tub with nicely curved sides and rear plate, and separate hull top. There are six very small sprues devoted to the suspension, and three further ones for the superstructure. There are seven further sprues bearing individual track links, and a very small sheet of photoetch.

By far the most elaborate parts are the suspension bogies which consist of eight parts for each pair of wheels and are very well detailed. Fortunately you only have to make 4 sets. Just be careful to glue the individual housing parts B3-B6, in the right place as they look similar but are all different. At least all completed wheel sets are the same without differences for left and right sides. Otherwise there are no real traps for the unwary and most of the parts count of 303 is taken up by the 86 individual track links required for each side.

I would have preferred link and length like the Renault R35, especially as these are very small links. Nevertheless it is possible to detach these fragile links from their thick carrier sprue without fracture or distortion. While they do not exactly snap together, the passive fit they demonstrate is infinitely preferable to one which is too tight and which requires each link to be painstakingly eased. There are only eleven parts on the photoetched sheet and these include a nice grille for the rear deck. An accurate propeller and steering system are supplied for the rear. Turret and hull hatches can be opened or closed, but there is no internal detail. Just a plain green scheme is called out, and there are no decals, but there would be plenty of more colourful and interesting options should you wish to do a little research. In summary a very buildable kit of a distinctive little vehicle and, given the complexity of modern kits, the closest you are liable to get to 'weekend project'.

As on the real thing, the suspension is a complex affair which will need due care and attention.

Stahlhelm Serie Sets

STEP BY STEP BY JAUME ORTIZ INCLUDED

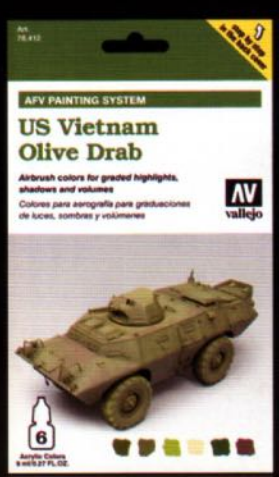
Stahlhelm Serie is a collection of miniatures and painting guides by "Heroes & Villains Miniatures" and paint sets by Acrylicos Vallejo.

STEP BY STEP INSTRUCTIONS
German Field Grey
Colores acrílicos para pintar uniformes alemanes
Acrylic colors for painting german uniforms
Art. 70.181

3 NEW AFV PAINTING SYSTEM SERIES!

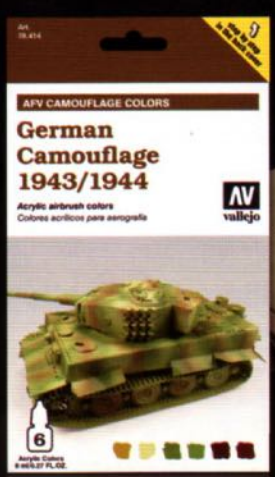
Step by Step included

Airbrush colors for graded highlights, shadows and volumes.



US Vietnam Olive Drab
Art. 78412

NATO Armour Colors
Art. 78413



German Camouflage 1943/44
Art. 78414

www.acrylicosvallejo.com

Follow us on:
/vallejocolors

vallejo